SAMSUNG

SLIM DIGITAL HOME CINEMA SYSTEM

HT-DS1000
HT-DS1100

Instruction Manual

DIVX VIDEO · DOLBY DIGITAL PRO LOGIC II · DIGITAL dts SURROUND · DVD AUDIO/VIDEO · COMPACT disc DIGITAL AUDIO · COMPACT disc DIGITAL VIDEO

Safety Warnings

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
PRODUCTO LASER CLASE 1

CAUTION
RISK OF ELECTRIC SHOCK.
DO NOT OPEN

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE REAR COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CLASS 1 LASER PRODUCT

This Compact Disc player is classified as a CLASS 1 LASER product.

Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION-INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED, AVOID EXPOSURE TO BEAM.

This symbol indicates that dangerous voltage which can cause electric shock is present inside this unit.

This symbol alerts you to important operating and maintenance instructions accompanying the unit.

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

Wiring the Main Power Supply Plug(UK Only)

IMPORTANT NOTICE

The main lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and if it requires replacing, a fuse approved to BS1362 of the same rating must be used.

Never use the plug with the fuse cover removed. If the cover is detachable and a replacement is required, it must be of the same colour as the fuse fitted in the plug. Replacement covers are available from your dealer.

If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance.

However, if there is no alternative to cutting off the plug, remove the fuse and then safely dispose of the plug. Do not connect the plug to a main socket as there is a risk of shock hazard from the bared flexible cord.

Never attempt to insert bare wires directly into a main socket. A plug and fuse must be used at all times.

IMPORTANT

The wires in the main lead are coloured in accordance with the following code:–

BLUE = NEUTRAL BROWN = LIVE

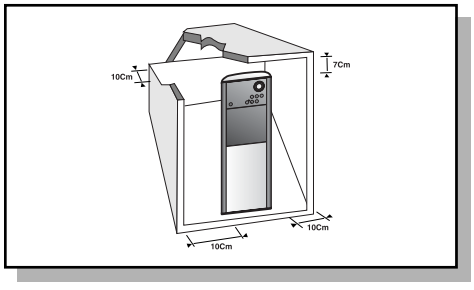
As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:–

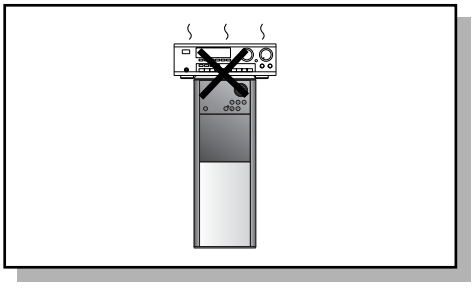
The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK.

The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

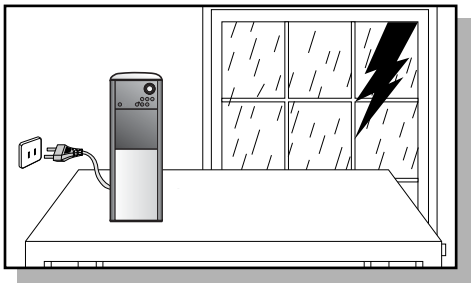
WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E OR BY THE EARTH SYMBOL ⏚, OR COLOURED GREEN OR GREEN AND YELLOW.

Precautions

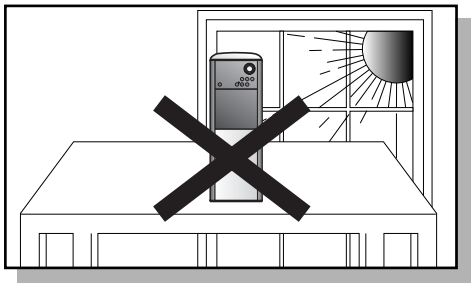




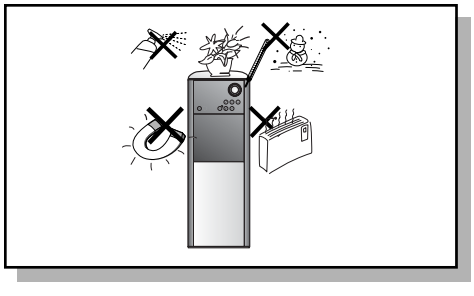
Ensure that the AC power supply in your house complies with the identification sticker located on the back of your player. Install your player horizontally, on a suitable base (furniture), with enough space around it for ventilation (3~4inches). Make sure the ventilation slots are not covered. Do not stack anything on top of the player. Do not place the player on amplifiers or other equipment which may become hot. Before moving the player, ensure the disc tray is empty. This player is designed for continuous use. Switching off the DVD player to the stand-by mode does not disconnect the electrical supply. In order to disconnect the player completely from the power supply, remove the main plug from the wall outlet, especially when left unused for a long period of time.



During thunderstorms, disconnect AC main plug from the wall outlet.
Voltage peaks due to lightning could damage the unit.



Do not expose the unit to direct sunlight or other heat sources.
This could lead to overheating and malfunction of the unit.

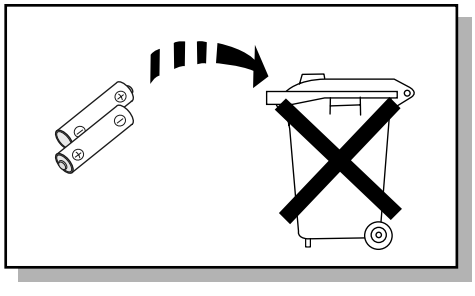


Protect the player from moisture(i.e. vases) , and excess heat(e.g.fireplace) or equipment creating strong magnetic or electric fields (i.e.speakers...). Disconnect the power cable from the AC supply if the player malfunctions. Your player is not intended for industrial use.

Use of this product is for personal use only.

Condensation may occur if your player or disc have been stored in cold temperatures.

If transporting the player during the winter, wait approximately 2 hours until the unit has reached room temperature before using.



The battery used with this product contain chemicals that are harmful to the environment.

Do not dispose of batteries in the general household trash.

Features

Multi-Disc Playback & FM Tuner

The HT-DS1000/HT-DS1100 combines the convenience of multi-disc playback capability, including DVD-AUDIO, DVD-VIDEO, VCD, CD, MP3-CD, WMA-CD, DivX, CD-R/RW, and DVD-R/RW, with a sophisticated FM tuner, all in a single player.

DVD-Audio compatible

Experience the super high-quality audio performance of DVD-Audio.
The on-board 24-bit/192kHz DAC enables this player to deliver exceptional sound quality in terms of dynamic range, low-level resolution and high-frequency detail.

Soft Touch Function Selection

The buttons on the front panel of the main unit are touch sensitive and easy to use.

Super Digital Sound Master

Equipped with a new digital audio technology (Auto Sound Calibration, Magic Sound Field, and Magic Headphone) developed in cooperation with DiMagic Co., Ltd. in Japan, you'll enjoy a more lively and sensitive sound.

Logo Sound

When you turn on the power, a ‘sound logo’ will be heard.

TV Screen Saver Function

The HT-DS1000/HT-DS1100 automatically brightens and darkens the brightness of the TV screen after 3 minutes in the stop mode.
The HT-DS1000/HT-DS1100 automatically switches itself into the power saving mode after 20 minutes in the screen saver mode.

AV SYNC Function

Video may lag behind the audio if the unit is connected to a digital TV.
To compensate for this, you can adjust the audio delay time to sync up with the video.

HDMI

HDMI transmits DVD video and audio signals simultaneously, and provides a clearer picture.

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Notes on Discs

DVD (Digital Versatile Disc) offers fantastic audio and video, thanks to Dolby Digital surround sound and MPEG-2 video compression technology. Now you can enjoy these realistic effects in the home, as if you were in a movie theater or concert hall.

DVD players and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.
The Region Number for this player is given on the rear panel of the player.
(Your DVD player will only play DVDs that are labeled with identical region codes.)

Playable Discs

Disc Type	Mark (Logo)	Recorded Signals	Disc Size	Max. Playing Time
DVD-AUDIO DVD-VIDEO	DVD AUDIO / VIDEO	Audio + Video	12cm	Approx. 240 min. (single-sided)
				Approx. 480 min. (double-sided)
			8cm	Approx. 80 min. (single-sided)
				Approx. 160 min. (double-sided)
VIDEO-CD	COMPACT disc DIGITAL VIDEO	Audio + Video	12cm	74 min.
			8cm	20 min.
AUDIO-CD	COMPACT disc DIGITAL AUDIO	Audio	12cm	74 min.
			8cm	20 min.

Do not use the following types of disc!

- LD, CD-G, CD-I, CD-ROM and DVD-ROM cannot be played on this player.
  If such discs are played, a "**WRONG DISC FORMAT**" message appears on the TV screen.
- DVD discs purchased abroad may not play on this player.
  If such discs are played, a "**WRONG REGION CODE**" message appears on the TV screen.

Copy Protection

- **Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.**
- This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Disc Recording Format

CD-R/RW Discs

- Depending on the disc recording device (CD-Recorder or PC) and the condition of the disc, some CD-R discs may not be playable.
- Use a 650MB/74 minute CD-R. Avoid CD-R media, as they may not be playable.
- If possible, do not use CD-RW (Rewritable) media, as they may not be playable.
- Only CD-Rs that are properly "closed" can be fully played. If the session is closed but the disc is left open, you may not be able to fully play the disc.

CD-R/RW MP3 Discs

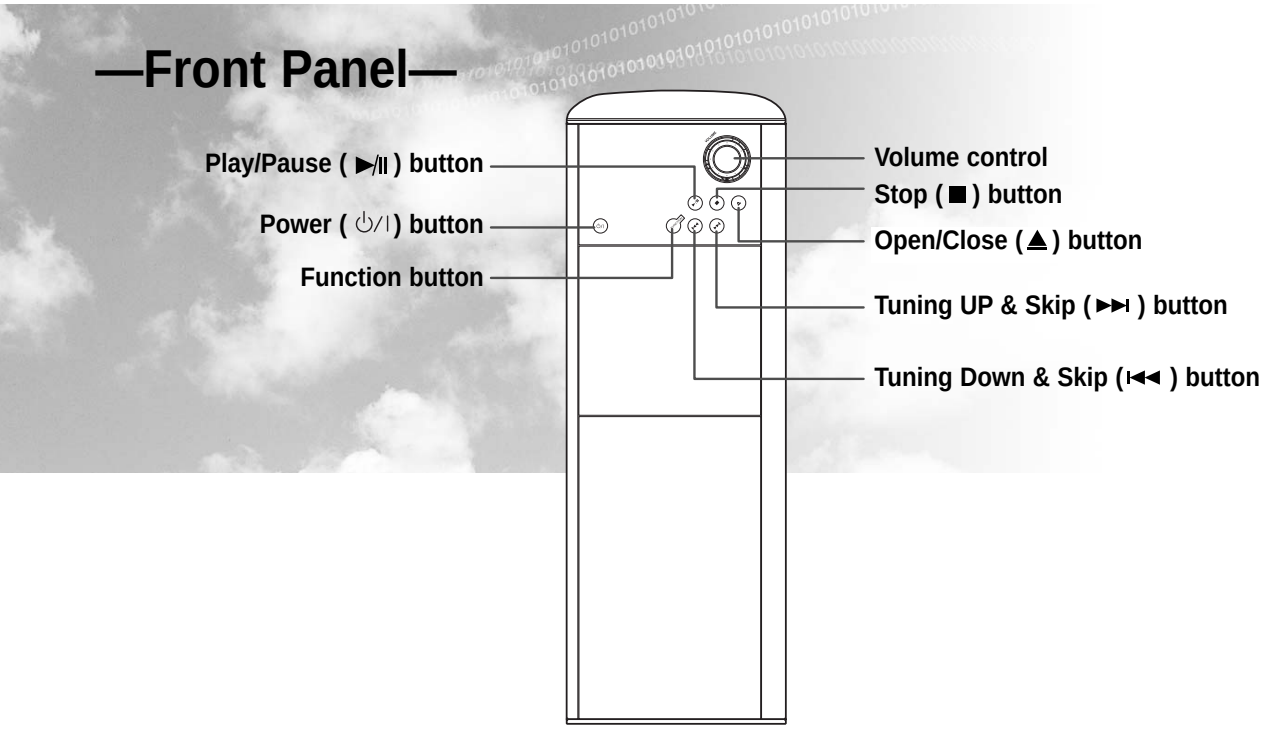
- Only CD-R discs with MP3 files in ISO 9660 or Joliet format can be played.
- MP3 file names should be 8 characters or less in length and contain no blank spaces or special characters (. / = +).
- Use discs recorded with a compression/decompression data rate greater than 128Kbps.
- Only files with the ".mp3" and ".MP3" extensions can be played.
- Only a consecutively written Multisession disc can be played. If there is a blank segment in the Multisession disc, the disc can be played only up to the blank segment.
- If the disc is not closed, it will take longer to begin playback and not all of the recorded files may be played.
- For files encoded in Variable Bit Rate (VBR) format, i.e. files encoded in both low bit rate and high bit rate (e.g., 32Kbps ~ 320Kbps), the sound may skip during playback.
- If more than 500 tracks are recorded on a single CD, a maximum of 500 tracks can be played.
- If more than 300 folders are recorded on a single CD, a maximum of 300 folders can be played.

CD-R/RW JPEG Discs

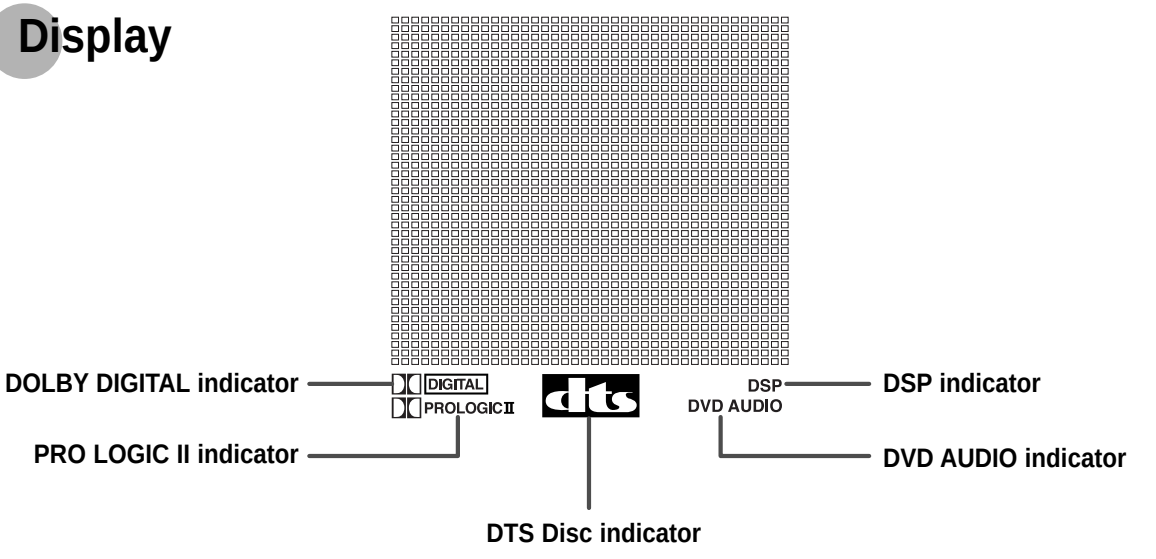
- Only files with the ".jpeg" and ".JPEG" extensions can be played.
- If the disc is not closed, it will take longer to start playing and not all of the recorded files may be played.
- Only CD-R discs with JPEG files in ISO 9660 or Joliet format can be played.
- JPEG file names should be 8 characters or less in length and contain no blank spaces or special characters (. / = +).
- Only a consecutively written multisession disc can be played. If there is a blank segment in the multisession disc, the disc can be played only up to the blank segment.
- A maximum of 9,999 images can be stored on a single CD.
- When playing a Kodak/Fuji Picture CD, only the JPEG files in the picture folder can be played.
- Picture discs other than Kodak/Fuji Picture CDs may take longer to start playing or may not play at all.

Description

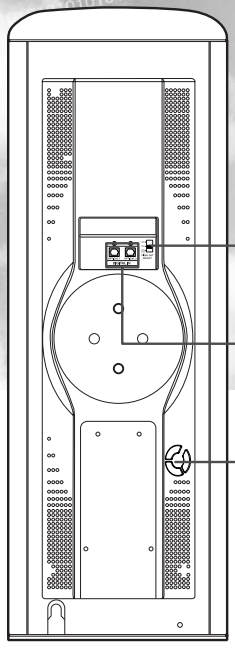
—Front Panel—


Play/Pause (▶/II) button
Power (⏻/I) button
Function button
Volume control
Stop (■) button
Open/Close (▲) button
Tuning UP & Skip (▶▶I) button
Tuning Down & Skip (I◀◀) button

Display



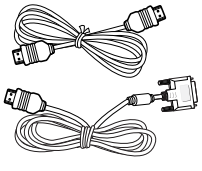
—Rear Panel—



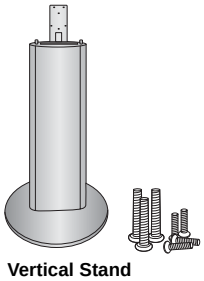
Accessories

Remote Control

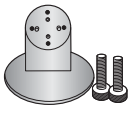
Video Cable



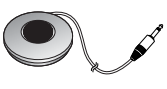
HDMI Cable
HDMI/DVI Cable



Vertical Stand
Screw Large : 3EA
Screw Small : 4EA

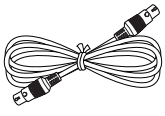


Horizontal Stand
Screw Large : 2EA



Auto Sound Calibration
Microphone

FM Antenna

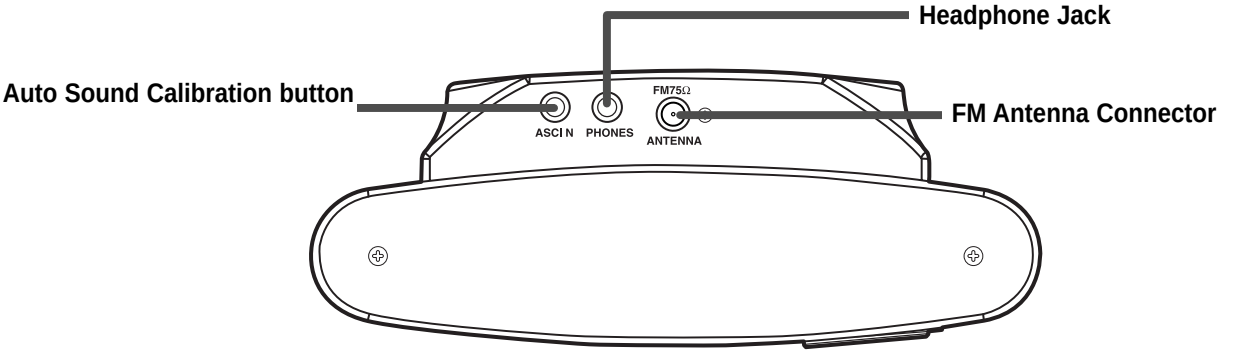


DIN Audio Connection
Cable

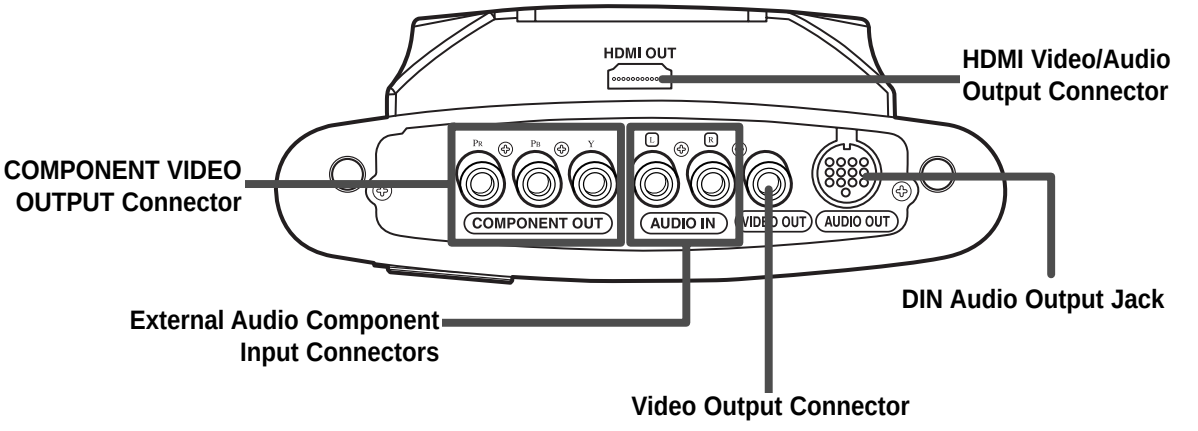
User's Manual

Description

Top

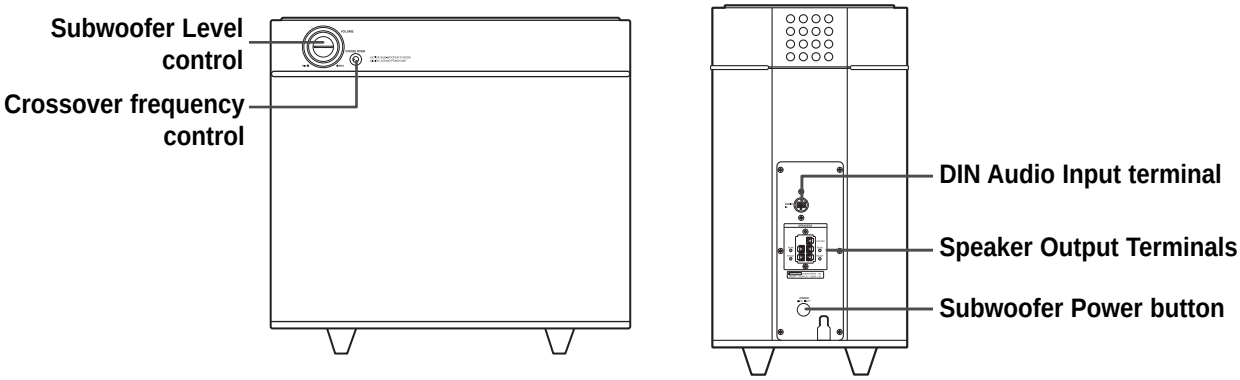


Bottom



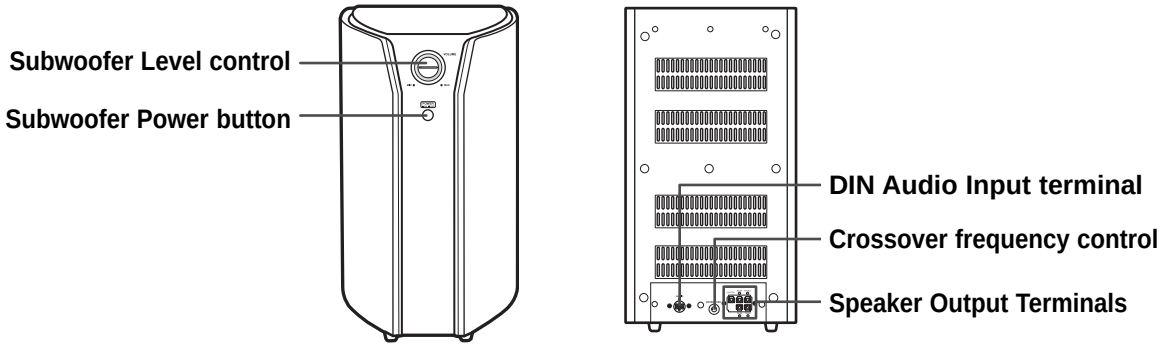
Subwoofer

PSWS1000T (Subwoofer of HT-DS1000)



< Right > < Rear >

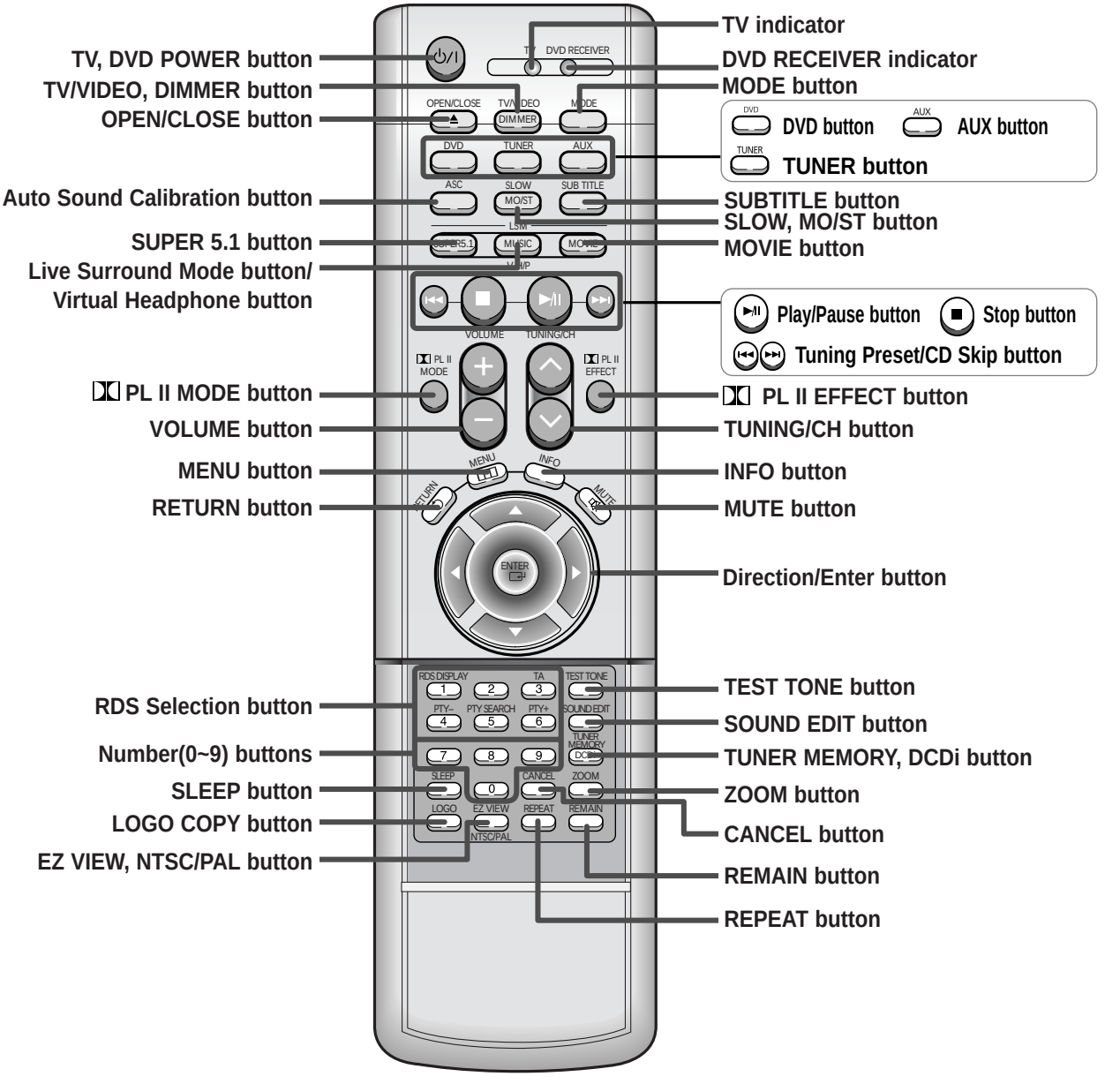
PSWS1100T (Subwoofer of HT-DS1100)



< Front > < Rear >

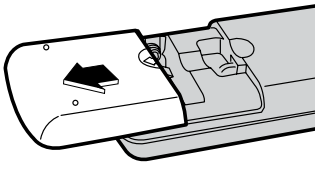
Description

—Remote Control—

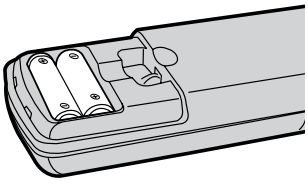


Insert Remote Batteries

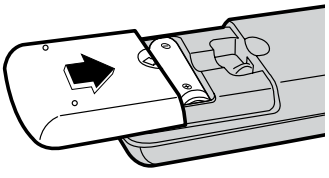
1 Remove the battery cover on the back of the remote by pressing down and sliding the cover in the direction of the arrow.



2 Insert two 1.5V AAA batteries, paying attention to the correct polarities (+ and –).



3 Replace the battery cover.



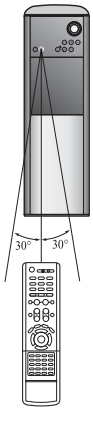
Caution

Follow these precautions to avoid leaking or cracking batteries:

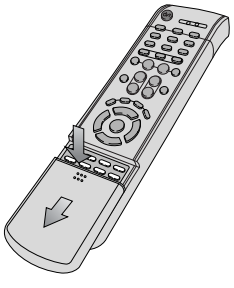
- Place batteries in the remote control so they match the polarity:(+) to (+)and (–)to (–).
- Use the correct type of batteries.Batteries that look similar may differ in voltage.
- Always replace both batteries at the same time.
- Do not expose batteries to heat or flame.

Range of Operation of the Remote Control

The remote control can be used up to approximately 23 feet/7 meters in a straight line. It can also be operated at a horizontal angle of up to 30° from the remote control sensor.



To open the remote control cover, push the top of the cover, then slide downward.



Installing DVD player

You can select and install either the Vertical or Horizontal Stand, depending on your preference.

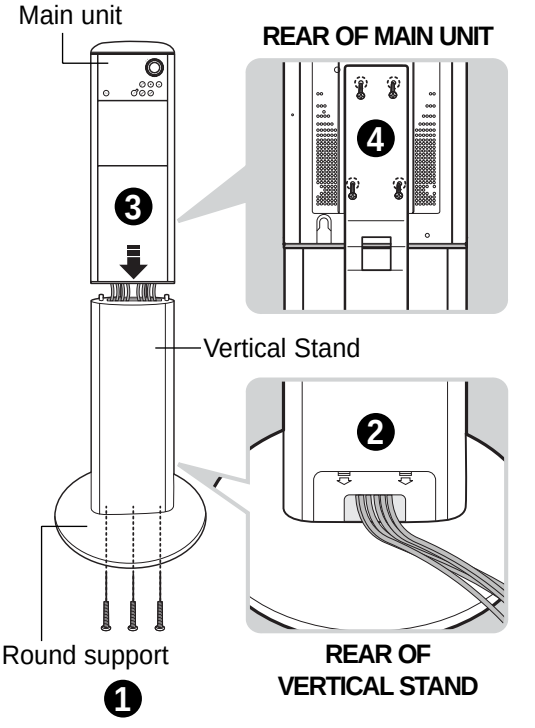
Vertical Stand (supplied)

1 Fix the round support and Vertical Stand with screws 3EA.

2 Open the cover on the rear of Vertical Stand and connect the Audio/Video cable into the Vertical Stand.
(See pages 19~24 for how to connect the cable.)

3 Locate the two indentations on the bottom of the Main unit. Slide the Main unit onto the two matching dowels on Vertical Stand.

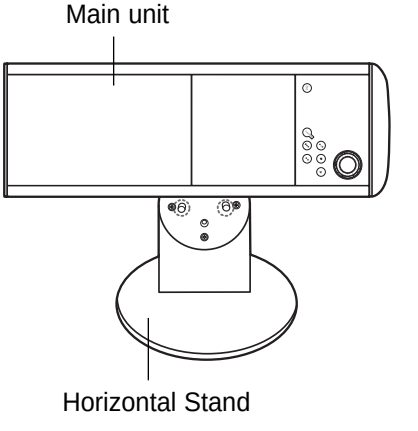
4 Fix the Vertical Stand and the main unit with screws 4EA.



Horizontal Stand (supplied)

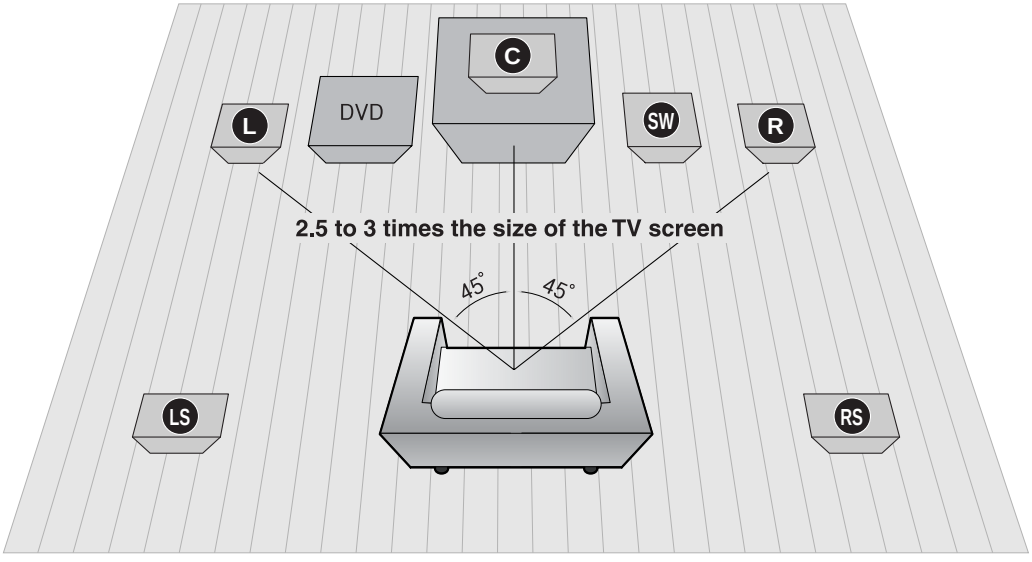
1 Locate the two indentations on the side of the main unit and slide onto the two matching dowels on Horizontal Stand.

2 Fix the Horizontal Stand and the main unit with screws 2EA.



Connecting the Speakers

Before moving or installing the product, be sure to turn off the power and disconnect the power cord.



Position of the DVD Player

- Place it on a stand or cabinet shelf, or under the TV stand.

Front Speakers L R

- Place these speakers in front of your listening position, facing inwards (about 45°) toward you.
- Place the speakers so that their tweeters will be at the same height as your ear.
- Align the front face of the front speakers with the front face of the center speaker or place them slightly in front of the center speakers.

Center Speaker C

- It is best to install it at the same height as the front speakers.
- You can also install it directly over or under the TV.

Selecting the Listening Position

The listening position should be located about 2.5 to 3 times the distance of the TV's screen size away from the TV. Example: For 32" TVs 2~2.4m (6~8 feet)
For 55" TVs 3.5~4m (11~13 feet)

Rear Speakers LS RS

- Place these speakers behind your listening position.
- If there isn't enough room, place these speakers to face each other.
- Place them about 60 to 90cm (2 to 3feet) above your ear, facing slightly downward.

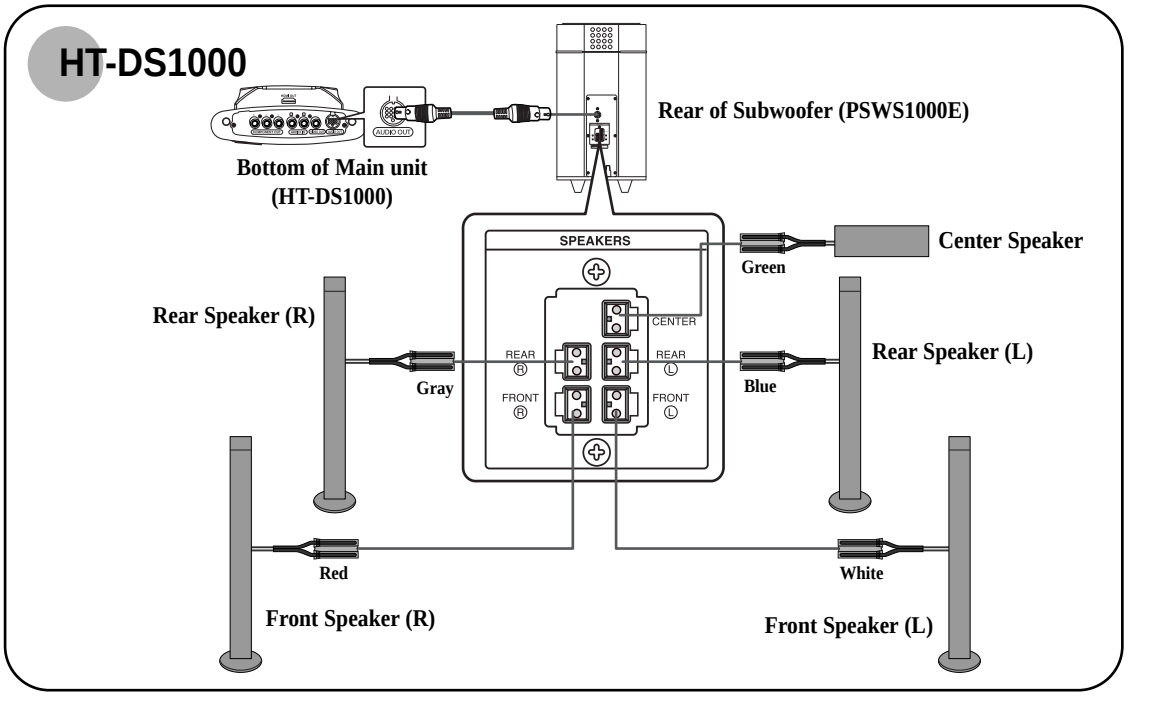
* Unlike the front and center speakers, the rear speakers are used to handle mainly sound effects and sound will not come from them all the time.

Subwoofer SW

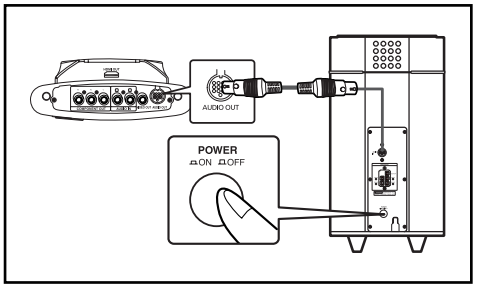
- The position of the subwoofer is not so critical. Place it anywhere you like.
- Usually, it is placed by a corner near the front speakers.

Connecting the Speakers

Connect the front, rear and center speakers to the speaker output jack on the side of subwoofer.



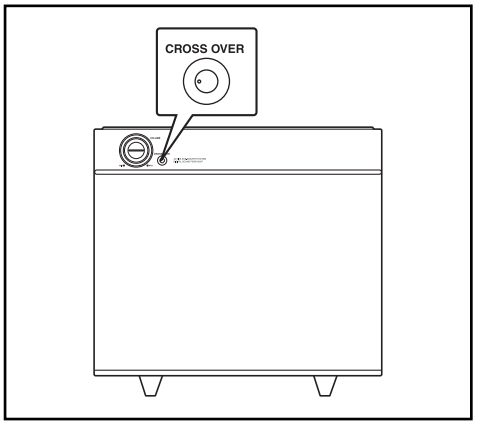
Connecting Main Unit to Subwoofer



1 Use the supplied DIN audio connection cable to connect DIN Audio Out on the main unit to DIN Audio Input on the subwoofer.

2 Press the subwoofer power button on the subwoofer to turn on the power.

Subwoofer Function

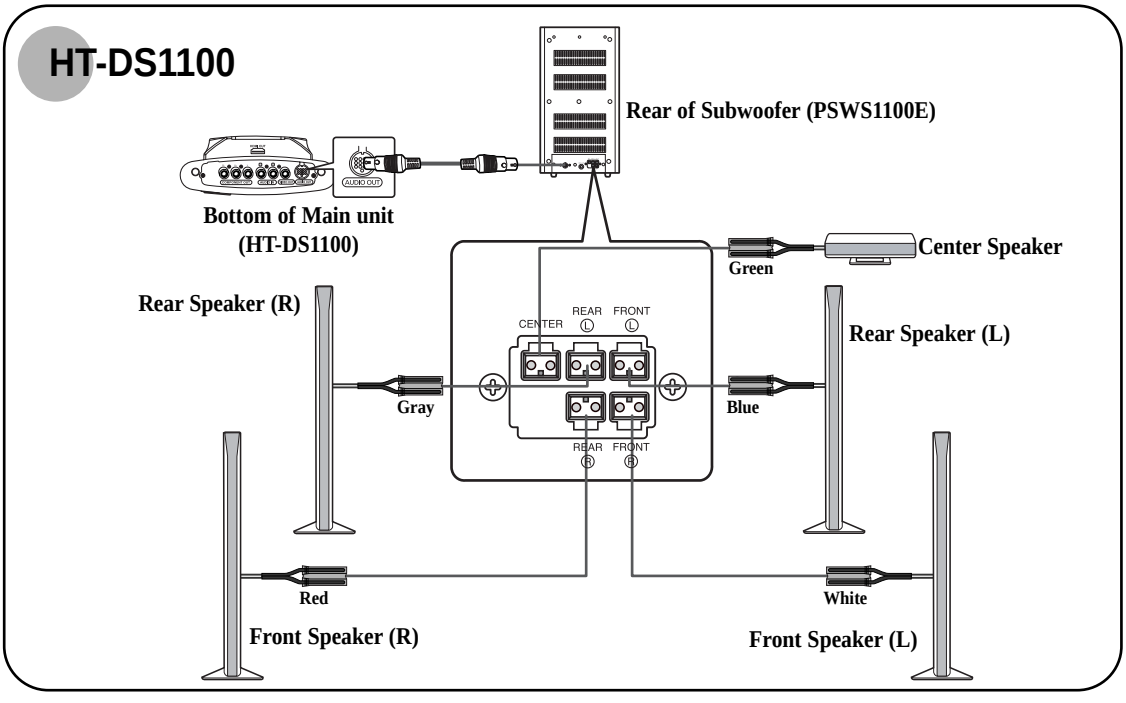


Subwoofer: The subwoofer is active, with a built-in a 150W amplifier, and outputs rich bass through 8 inch speaker units. You can listen to the optimal LFE (bass) by using the subwoofer-only volume control and the variable crossover control.

- The control is calibrated from –6dB (minimum) to +6dB (maximum).

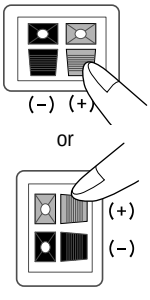
Crossover: The Crossover sets the cutoff frequency for the subwoofer. Set the Crossover control for the best bass response in your room.

- You can adjust the bass or treble output from the front, rear, center speakers and the subwoofer.
- To the left increases the bass and to the right, treble.

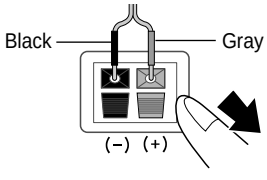


Connecting the Speakers

1 Press down the terminal tab on the back of the speaker.



2 Insert the black wire into the black terminal (–) and the gray wire into the gray (+) terminal, and then release the tab.



3 Connect the correct color speaker cable to the same color speaker output terminal on the rear of the subwoofer, according to the polarity markings (+/–).

Example: Connect the green center speaker cable to the green center speaker output terminal on the rear of the subwoofer according to the polarity markings (+/–).

Caution

- Do not let children play with or near the speakers. They could get hurt if a speaker falls.
- When connecting the speaker wires to the speakers, make sure that the polarity (+/–) is correct.
- Never touch the speaker terminal while the power is on. Doing so may result in a risk of electric shock.

Note

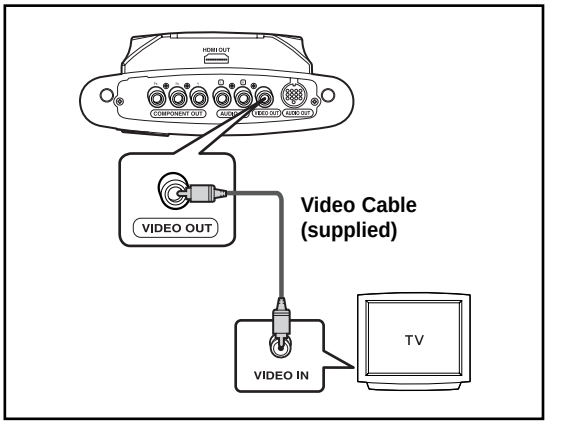
- If you place a speaker near your TV set, screen color may be distorted because of the magnetic field generated by the speaker. If this occurs, place the speaker away from your TV set.

Connecting the Video Out to TV

Method1 When you connect to Video Out ..... Good Quality

1 Connect the Video Out to the Video In on the TV.

2 Set the Video Input source on your TV to the corresponding Video output on your Home Theater.



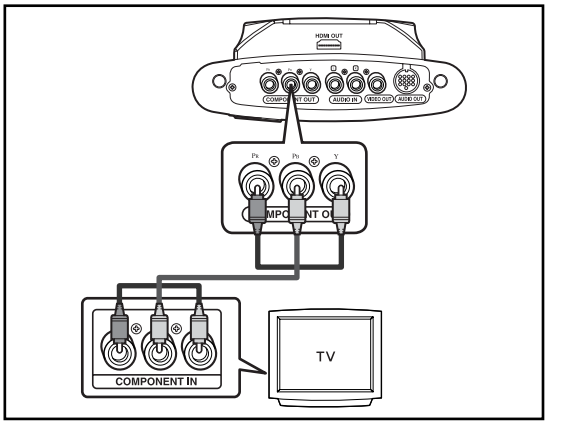
Method 2 When you connect to Component Out ..... Better Quality

Connect if the TV component input supports the resolution of over 576p(480p).

1 Connect the component output (P_R, P_B, Y) to the component input on the TV (P_R, P_B, Y).

- Be sure to make the correct connections between the when you connect the component output jacks to the TV. If these are connected wrong, the screen may show red or blue, or there may be no screen at all.

2 Set the Video Input source on your TV to the corresponding Component output on your Home Theater.



The Component input may be marked 'DVD input' depending on the TV.

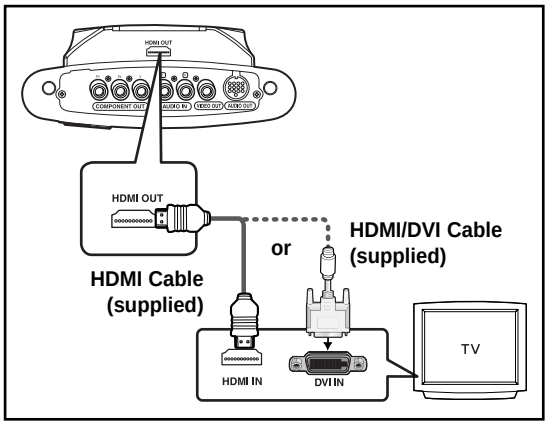
Note • If the TV only supports a resolution of 576i(480i), the screen may be divided into 2 screens, or display nothing.

Method 3 When you connect to HDMI Out ..... Best Quality

Connect if the TV has an HDMI (or DVI) In jack.

1 Connect the HDMI Out to the HDMI (or DVI) Input on the TV.

2 Set the Video Input source on your TV to the corresponding HDMI output on your Home Theater.



What is HDMI (High Definition Multimedia Interface)?

This device transmits DVD video and audio signals digitally without the process of converting to analog. You can get sharper digital pictures by connecting the video to the TV using an HDMI connection cable.

Note

- If you connect the HDMI and Component outputs (P_R, P_B, Y) at the same time, the Component output resolution changes automatically to the designated HDMI resolution.
  Example: If the TV connected to HDMI can only support up to 576p(480p), the HDMI and Component outputs are all converted to 576p(480p), even if you select the resolution switch to 1080i.
- Since this product has an embedded Video Upscaler function with Faroudja DCDi technology, it can enhance a 576i(480i) DVD resolution output to 576p(480p)/720p/1080i.
- You do not have to make separate adjustments, since the Home Theater and TV will be automatically adjust themselves to the optimal resolution and aspect ratio if connected to HDMI. (If the TV is an HDTV and has an HDMI Input jack, output is automatically converted to the resolution of 1080i.)
- Audio will not be output if decoder is not embedded in TV during 5.1 channel disk playback.
- Component output will give video in '576p(480p)' mode only during DVD disc playback applied with Macrovision.
- Macrovision processes scramble on analog output to prevent illegal recording. Accordingly, if you are using HDMI only, it can output 576p(480p)/720P/1080i, but is limited to 576p(480p) only if you are using component.
- When both HDMI connector and COMPONENT connector are connected, COMPONENT video is not displayed.
- See your TV owner's manual for more information on how to select the TV's Video Input source.

Connecting the Video Out to TV

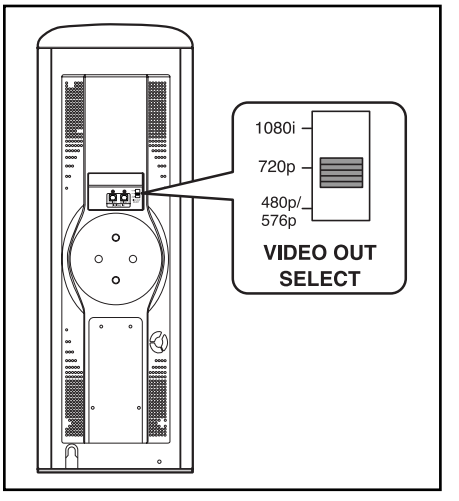
Selecting Resolution

You can adjust the resolution switch to set the HDMI and component (P_R, P_B, Y) output resolution to 576p(480p)/720p/1080i.

Example: If the TV supports resolution up to 576p(480p)

1 Set the resolution switch to 576p(480p).

- A 576p(480p) video signal is output through the HDMI and component outputs (P_R, P_B, Y).

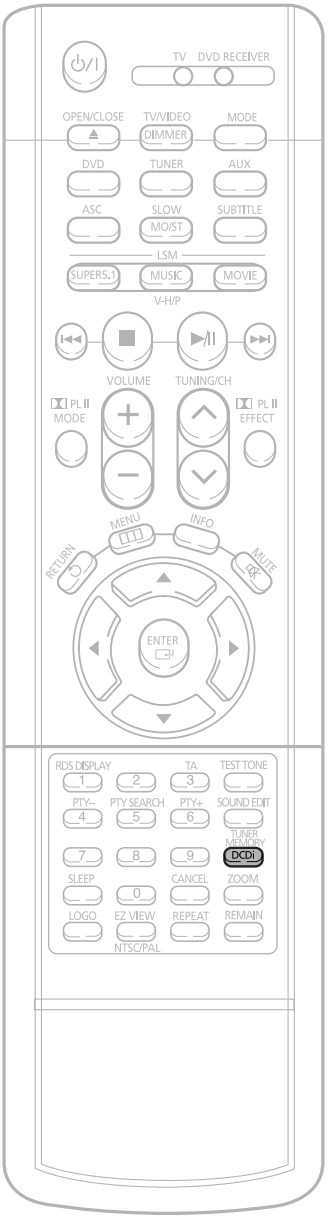


Caution

- If you connect the HDMI and Component outputs (P_R, P_B, Y) at the same time, Component output resolution changes automatically to the designated HDMI resolution.

Note

- If copy protection is in place, output resolution is automatically converted to 576p(480p) when you play the DVD, even if you set the resolution to 720p or 1080i.



DCDi (Directional Correlational Deinterlacing) Function

Converts the interlace signal to progressive to prevent flickering and to remove distortion or noise on the edge of screen.

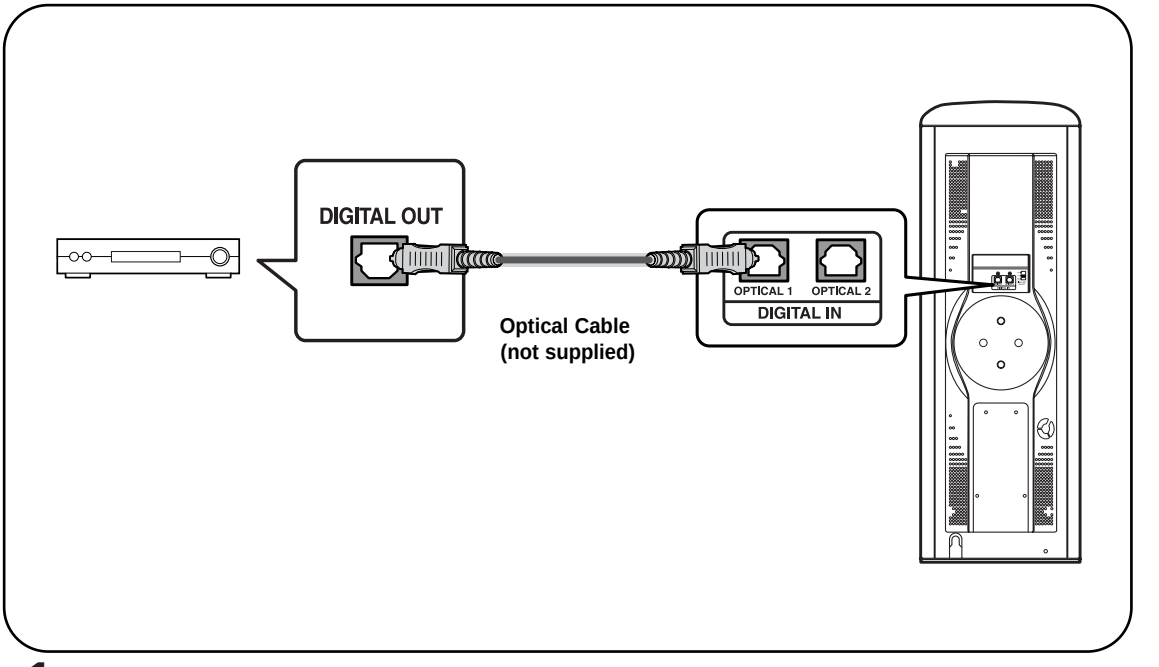
Press and hold **DCDi** button on the remote control for over 3 seconds.

- Each time the button is pressed, the selection alternates between **DCDi ON** and **DCDi OFF**.

Connecting External Components

Connecting an External Digital Component

Example: Digital signal components such as a Settop Box or CD Recorder.

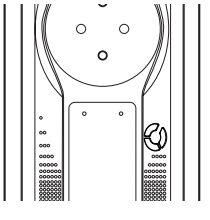


1 Connect the Digital In 1 or 2 (OPTICAL) on the main unit to the Digital Output on the external digital component.

2 Press **AUX** on the remote control to select 'D.IN 1 or D.IN 2'.

- Each time the button is pressed, the selection changes as follows: **D.IN 1 →D.IN 2 →AUX**.
- You can also use the **FUNCTION** button on the main unit.
  The mode switches as follows: **DVD/CD → D.IN 1 →D.IN 2 → AUX → FM**.

Cooling Fan



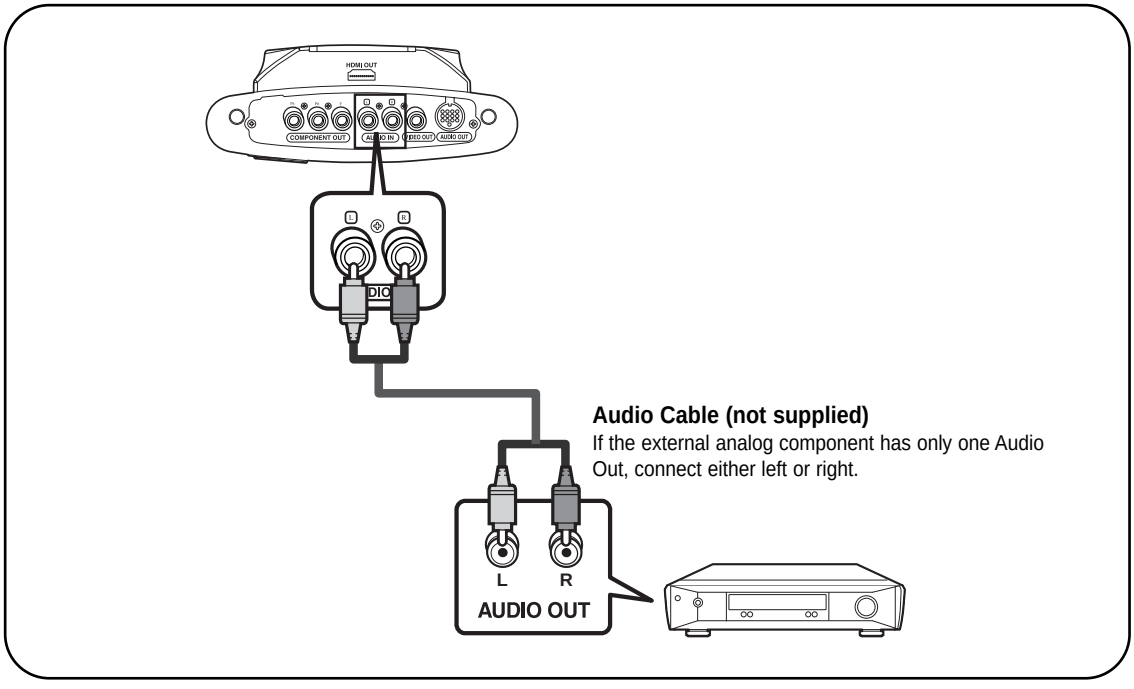
The cooling fan dissipates the heat generated inside the unit so that the unit can be operated normally. The cooling fan is activated automatically to supply cool air to the unit.

Please observe the following cautions for your safety.

- Make sure the unit is well-ventilated. If the unit has poor ventilation, the temperature inside the unit could rise and may damage it.
- Do not obstruct the cooling fan or ventilation holes. (If the cooling fan or ventilation holes are covered with a newspaper or cloth, heat may build up inside the unit and fire may result.)

Connecting an External Analog Component

Example: Analog signal components such as a VCR or TV.



1 Connect Audio In on the main unit to Audio Out on the external analog component.

- Be sure to match connector colors.

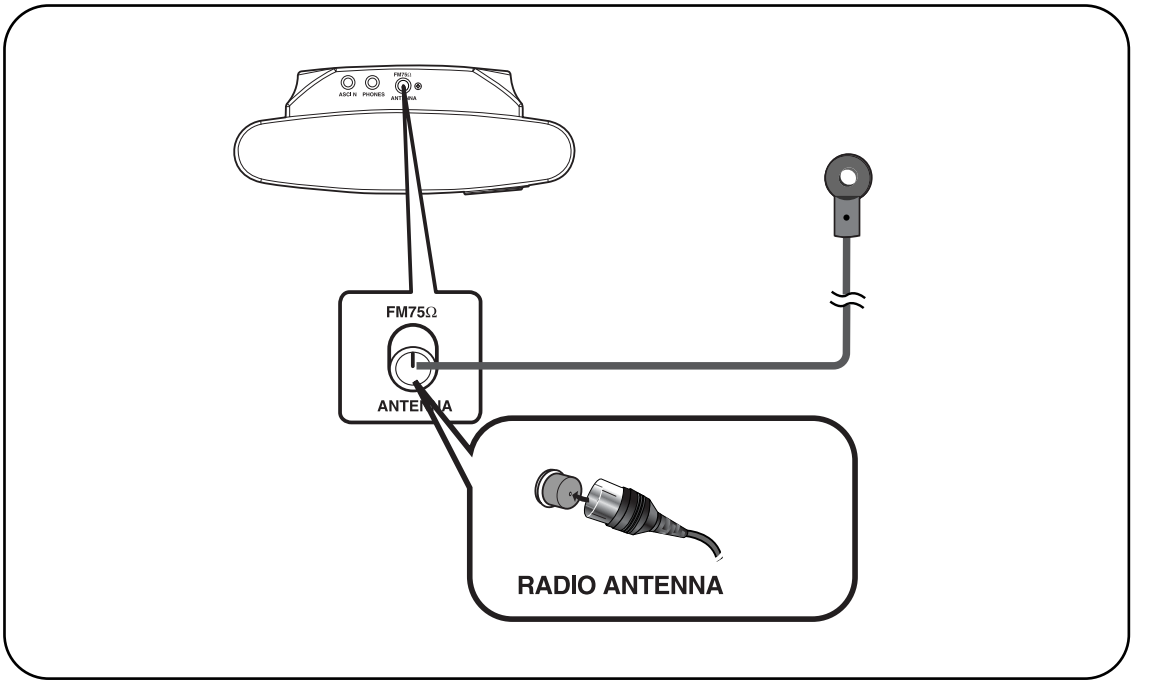
2 Press **AUX** on the remote control to select AUX.

- Each time the button is pressed, the selection changes as follows: **D.IN 1 →D.IN 2 →AUX**.
- You can also use the **FUNCTION** button on the main unit.
  The mode switches as follows: **DVD/CD → D.IN 1 →D.IN 2 → AUX → FM**.

Note

- To listen TV sound in 5.1 channel sound through the main unit, connect the Audio In on the main unit to the Audio Output on the TV.
- You can connect Video Output jack on the VCR to the TV, and connect Audio Output jack on the VCR to this product.

Connecting the FM Antenna



FM antenna connection

1 **Connect the FM antenna supplied to the FM 75Ω COAXIAL terminal as a temporary measure.**

2 **Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.**

Selecting the Video Format

Press and hold **NTSC/PAL** button on the remote controller for over 5 seconds while the power is turned off.

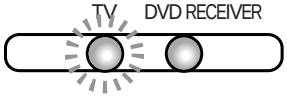
- "**NTSC**" or "**PAL**" will appear in the display.
  At this time, press the **NTSC/PAL** button shortly to select between "**NTSC**" and "**PAL**".
- Each country has a different video format standard.
- For normal playback, the video format of the disc must be the same as the video format of your TV.

Before Using Your DVD Player

Your DVD player is capable of playing DVD, VCD, CD, MP3 and JPEG discs.Depending on the disc you are using, these instructions may vary slightly. Read the instructions carefully before using.

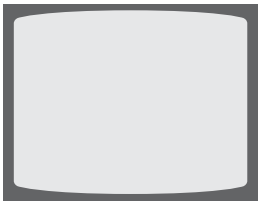
1 Plug the power cord into the AC power supply.

2 Press the **MODE** button so that the TV indicator on the remote control flashes.

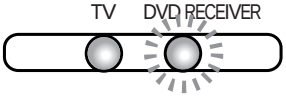


3 Press the **POWER** button to turn on the TV.

4 Press **TV/VIDEO** button to select VIDEO mode.



5 Press the **MODE** button so that the DVD RECEIVER indicator on the remote control flashes.



6 Press **DVD** button to select DVD/CD mode.

To Operate the TV and DVD Player with a Single Remote Control

Press **MODE** button.

- Each time the button is pressed, the TV indicator (red) and the DVD Receiver indicator (green) will flash alternately.
- You can operate the TV while the TV indicator is flashing and the DVD player while the DVD indicator is flashing.
- Buttons Enabled for TV Operation: POWER, CHANNEL, VOLUME, TV/VIDEO and Numeric (0-9) buttons.
- By default, the remote control is set to work with Samsung TVs.
  See page 77 for more information on the operation of the remote control.

Note

- If you move the product during playback, the disc may be damaged.
- If you push the disc window up or down by hand, it may cause a breakdown.
- Do not let children insert their fingers into the unit.

Disc Playback

1 Press **OPEN/CLOSE** button to open the disc tray.

2 Insert the disc so that the printed side faces up.

3 Press **OPEN/CLOSE** button to close the disc window.

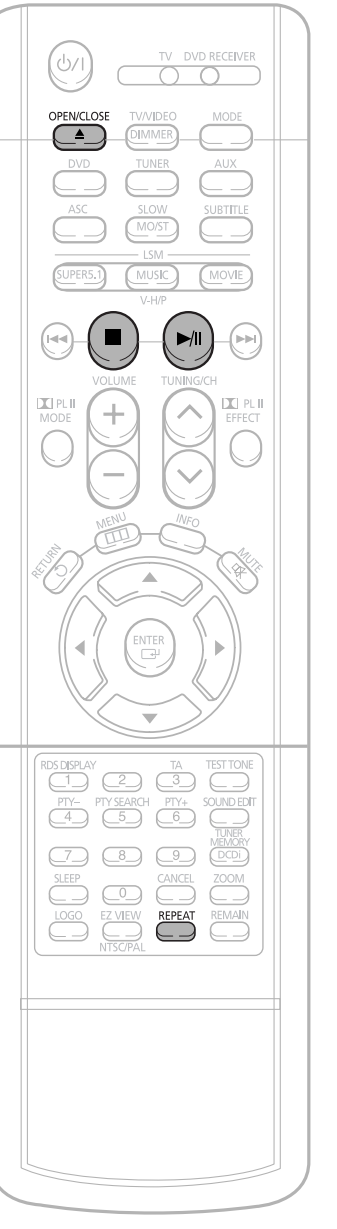
- The disc plays automatically when the disc window is closed.
- The disc menu may appear differently depending on the disc.

DVD VCD CD

- Playback starts automatically.

Note

- Depending on the content of the disc, the initial screen may appear different.



To stop playback, press **STOP** during playback.

- If pressed once, "**PRESS PLAY**" is displayed and the stop position will be stored in memory. If **PLAY/PAUSE** (▶/II) button or **ENTER** button is pressed, playback resumes from the stop position. (This function works only with DVDs.)
- If pressed twice, "**STOP**" is displayed, and if **PLAY/PAUSE** (▶/II) button is pressed, playback starts from the beginning.

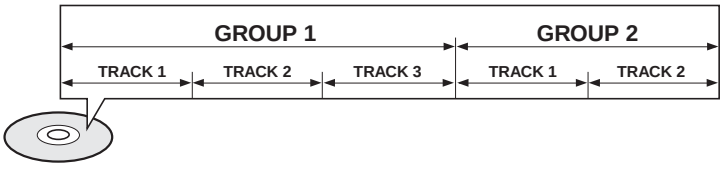
To temporarily pause playback, press **PLAY/PAUSE** during playback.

- To resume playback, press **PLAY/PAUSE** (▶/II) button again.

Disc terminology

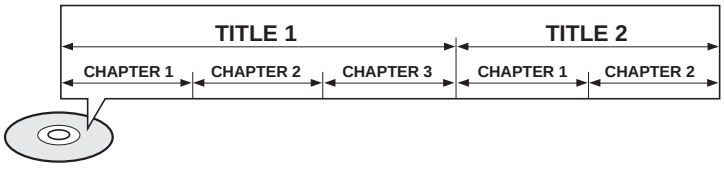
Groups and tracks (DVD-AUDIO)

- DVD-audios is divided into several large sections called "groups" and smaller sections called "tracks". Numbers are allotted to these sections.
  These numbers are called "group numbers" and "track numbers".



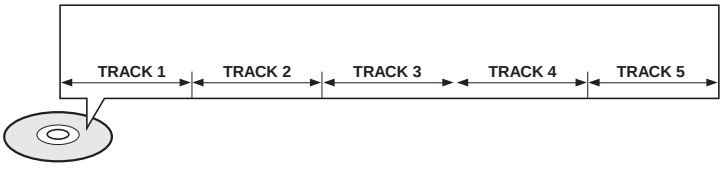
Titles and chapters (DVD-VIDEO)

- DVD-videos is divided into several large sections called "titles" and smaller sections called "chapters". Numbers are allotted to these sections.
  These numbers are called "title numbers" and "chapter numbers".



Tracks (Video and music CDs)

- Video and music CDs are divided into sections called "tracks".
  Numbers are allotted to these sections. These numbers are called "track numbers".



Note

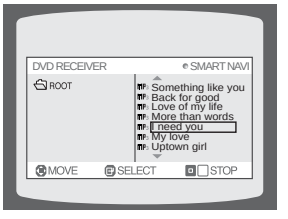
- **In this manual, the instructions marked with "DVD (DVD)" are applicable to DVD-VIDEO, DVD-AUDIO, and DVD-R/RW discs.**
  Where a particular DVD type is mentioned, it is indicated separately.
- Depending on the content of the disc, the initial screen may appear different.

MP3-CD Playback

Data CDs (CD-R, CD-RW) encoded in MP3 format can be played.

1 Press the **OPEN/CLOSE** button to open the disc tray, and then load the MP3 disc.

- The MP3 menu screen will appear and playback will start.
- Depending on the MP3 disc, the appearance of the menu may be different.

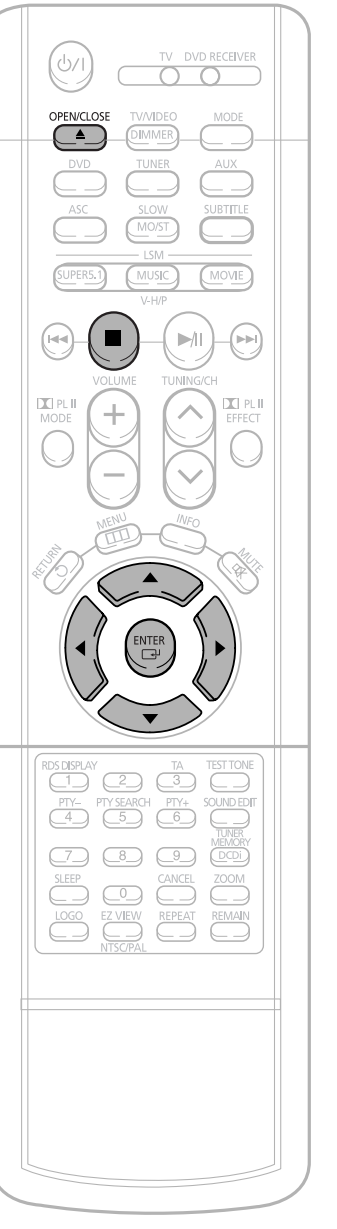


2 In Stop mode, use ◀ ▶ ▲ ▼ to select the album, and then press the **ENTER** button.

3 To change the album, use ◀ ▶ ▲ ▼ to select another album in Stop mode, and then press the **ENTER** button.

- To select another album and track, repeat Steps 2 and 3 above.

4 Press the **STOP** button to stop playback.



Note

- Depending on the recording mode, some MP3-CDs may not play.
- Table of contents of a MP3-CD varies depending on the MP3 track format recorded on the disc.

JPEG Disc Playback

Images captured with a digital camera or camcorder, or JPEG files on a PC can be stored on a CD and then played back with this unit.

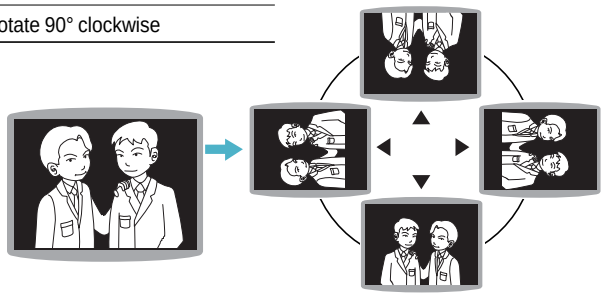
Press the **OPEN/CLOSE** button to open the disc windows, and then load the JPEG disc.

- Playback will start automatically and each image will show for 5 seconds before moving to the next image.

To rotate the image

During playback, press ▲▼◀▶.

▲ Rotate vertically	◀ Rotate 90° counterclockwise
▼ Rotate horizontally	▶ Rotate 90° clockwise

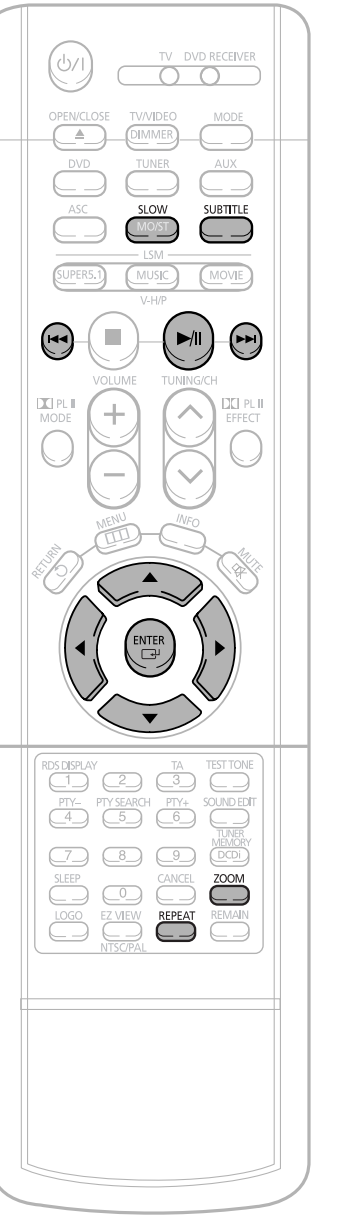


DivX Playback

Skip Forward/Back

During playback, press the ⏮ ⏭ button.

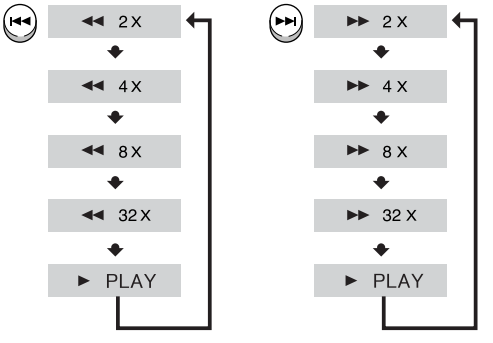
- Go to the next file whenever you press ⏭ button, if there are over 2 files in the disk.
- Go to the previous file whenever you press ⏮ button, if there are over 2 files in the disk.



Fast playback

Press and hold ⏮ ⏭ button.

- Each time the button is held down during playback, the playback speed changes as follows:



Zoom Function

1 Press **ZOOM** button.

- Each time you press the button, your selection will toggle between "**ZOOM X2**" and "**ZOOM OFF**".

2 Press Cursor ▲,▼, ◄,► buttons to move to the area you want to enlarge.

Note

- DIVX file can be zoomed only in ZOOM X2 mode.

5 Minute Skip function

During playback, press the ◀ ,▶ button.

- Go to the screen about 5 minutes after whenever you press ▶ button.
- Go to the screen about 5 minutes earlier whenever you press ◀ button.

Subtitle Display

Press the **SUBTITLE** button.

- Each time you press the button, your selection will toggle between "**SUBTITLE ON**" (1/1, 1/2 ...) and "**SUBTITLE OFF**".
- If the disc has only one subtitle file, it will be played automatically.

If the disc has more than one subtitle file

If the disc has more than one subtitle file, the default subtitle may not match the movie and you will have select your subtitle language as follows:

1 In Stop mode, press the ▲, ▼, ◀ , ▶ button, select the desired subtitle ( ) from the TV screen, and then press the **ENTER** button.

2 When you select the desired DivX file from the TV screen, the movie will be played normally.

DivX Feature Table

DivX Supported

Avi files are used to contain the audio and video data; these must be stored on CD in the ISO 9660 format.

		SPEC
VIDEO Compatibility	DivX3.11	Up to the latest VERSION
	WMV	WMV V1/V2/V3/V7
	Screen Size	720~576
AUDIO Compatibility	MP3	CBR : 80kbps~320kbps
	AC3	CBR : 128kbps~384kbps
	WMA	CBR : 56kbps~160kbps

MPEGs containing DivX can be divided into Video and Audio.

- **Video compatibility** : All versions of DivX later than 3.11 (including the latest 5.1) are supported. In addition, XviD is supported. For WMV, V1, V2, V3, and V7 formats are possible.
- **Audio compatibility** : MP3s encoded at bitrates from 80kbps to 320kbps, AC3s from 128kbps to 384kbps, and WMAs from 56kbps to 160kbps are supported.
- **In addition, for subtitles, this unit will support Text format (SMI).**

Note

- When playing the DivX disk, you can play the file with extension of AVI only.
- Among the available DivX audio formats, DTS Audio is not supported.
- WMV V8 is not supported for WMV files.
- When burning a subtitle file to a CD-ROM with your PC, be sure to burn it as an SMI file.
- DivX Disc does not playing when its sampling frequency is lower than 32kHz.
- Some of the discs recorded in DivX or XviD depending on the way of recording could be played back not correctly or couldn't be played back at all.

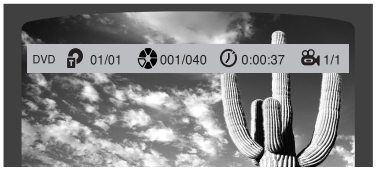
Displaying Disc Information

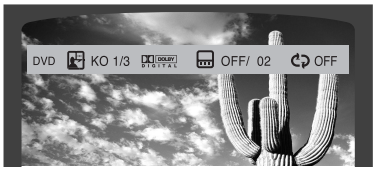
You can view disc playback information on the TV screen.

Press **INFO** button.

- Each time the button is pressed, the display changes as follows:

DVD



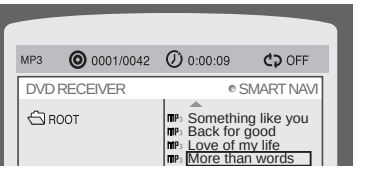


Display disappears

VCD CD

Display disappears

MP3 DivX JPEG



Display disappears

- **appears on the TV screen!**

  If this symbol appears on the TV screen while buttons are being operated, that operation is not possible with the disc currently being played.

Note

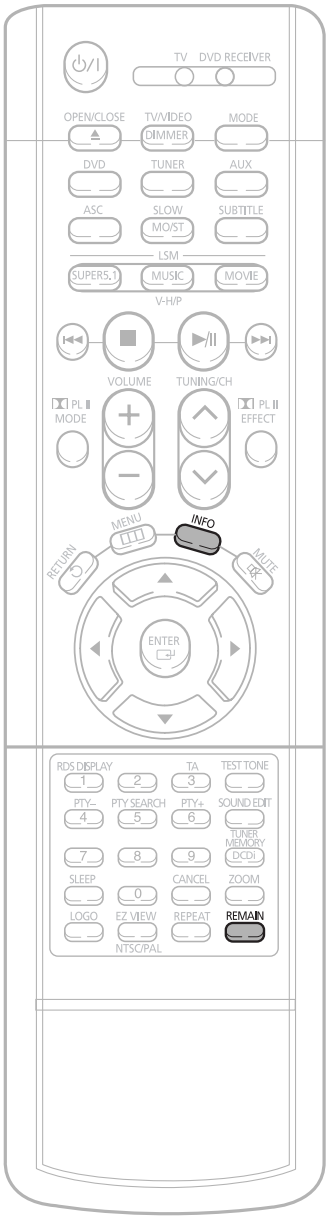
- Depending on the disc, the disc information display may appear different.
- Depending on the disc, you can also select DTS, DOLBY DIGITAL, or PRO LOGIC.

- **What is a Group?**
  A movie contained in a DVD-AUDIO disc.
- **What is a Title?**
  A movie contained in a DVD-VIDEO disc.
- **What is a Chapter?**
  Each title on a DVD disc is divided into several smaller sections called "chapters".
- **What is a Track (File)?**
  A section of video or a music file recorded on a DVD-AUDIO, CD, or MP3-CD.

Screen Display

DVD DVD display	DivX DivX display	CHAPTER display	REPEAT PLAYBACK display	LR STEREO (L/R) display
VCD VCD display	DVD AUDIO DVD-AUDIO display	TRACK (FILE) display	AUDIO LANGUAGE display	DOLBY DIGITAL DOLBY DIGITAL display
CD CD display	TITLE display	ELAPSED TIME display	SUBTITLE display	ANGLE display
MP3 MP3 CD display	GROUP display			

Checking the Remaining Time



Press the REMAIN button.

- For checking the total and remaining time of a title or chapter being played.

Each time the REMAIN button is pressed

DVD-VIDEO

TITLE ELAPSED → TITLE REMAIN → CHAPTER ELAPSED → CHAPTER REMAIN → (back to TITLE ELAPSED)

DVD-AUDIO

GROUP ELAPSED → GROUP REMAIN → TRACK ELAPSED → TRACK REMAIN → (back to GROUP ELAPSED)

VCD CD

TRACK ELAPSED → TRACK REMAIN → TOTAL ELAPSED → TOTAL REMAIN → (back to TRACK ELAPSED)

MP3

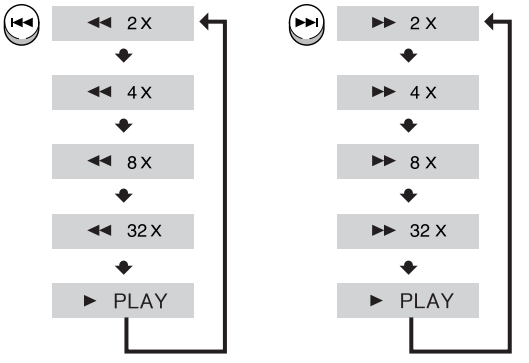
TRACK REMAIN → TRACK ELAPSED → (back to TRACK REMAIN)

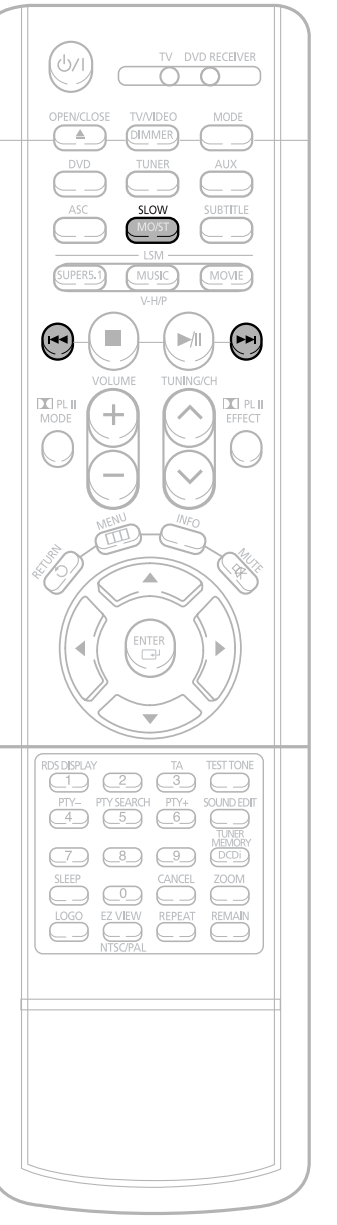
Fast/Slow Playback

Fast Playback DVD VCD CD MP3

Press and hold ⏮ ⏭ .

- Each time the button is held down during playback, the playback speed changes as follows:

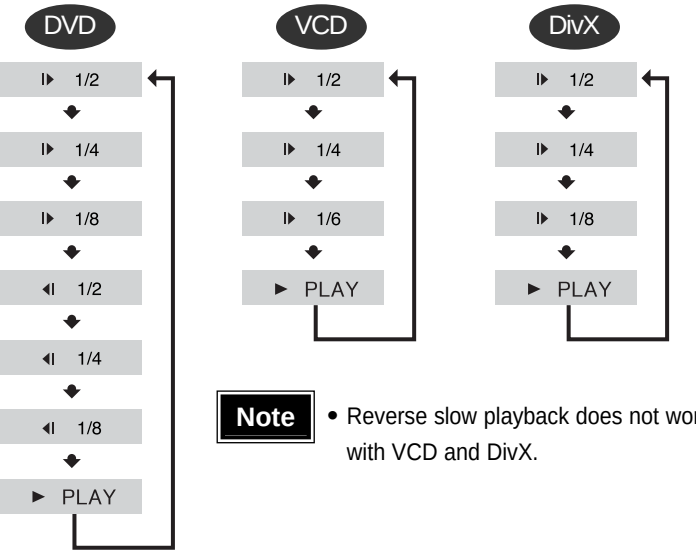




Slow Playback

Press **SLOW** button.

- Each time the button is pressed during playback, the playback speed changes as follows:



Note

- Reverse slow playback does not work with VCD and DivX.

Skipping Scenes/Songs

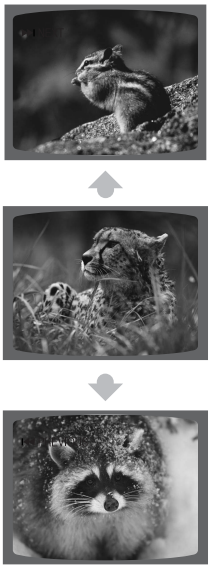
DVD VCD MP3

Briefly press ⏮ ⏭ .

- Each time the button is pressed briefly during playback, the previous or next chapter, track, or directory (file) will be played.

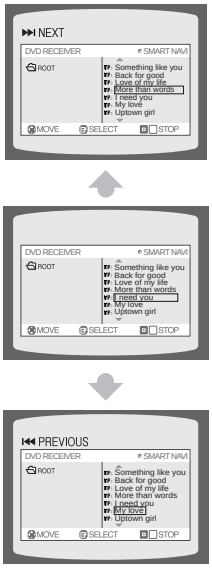
DVD

VCD



- When watching a VCD with a track longer than 15 minutes, each time ⏮ ⏭ is pressed, playback will skip back or forward 5 minutes.

MP3



Note

- During fast playback of a CD or MP3-CD, sound is heard only at 2x speed, and not at 4x, 8x, and 32x speeds.
- No sound is heard during slow playback and step motion playback.

Repeat Playback

Repeat playback allows you to repeatedly play a chapter, title, track (song), or directory (MP3 file).

DVD VCD CD MP3 JPEG

Press **REPEAT** button.

- Each time the button is pressed during playback, the repeat playback mode changes as follows:

DVD-VIDEO

REPEAT : CHAPTER → REPEAT : TITLE → REPEAT : OFF → REPEAT : CHAPTER

DVD-AUDIO

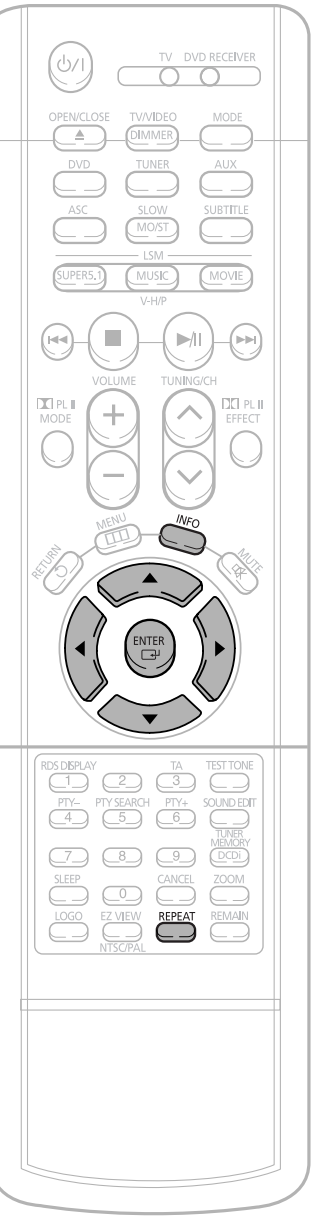
REPEAT : TRACK → REPEAT : GROUP → REPEAT : OFF → REPEAT : TRACK

MP3 JPEG

REPEAT : RANDOM → REPEAT : TRACK → REPEAT : DIR → REPEAT : DISC → REPEAT : OFF → REPEAT : RANDOM

VCD CD

REPEAT : TRACK → REPEAT : DISC → REPEAT : OFF → REPEAT : TRACK



To Select a Repeat Playback Mode in the Disc Information Screen

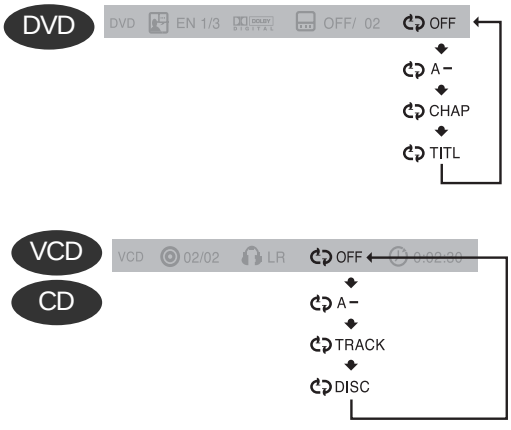
1 Press **INFO** button twice.

2 Press Cursor ▶ button to move to REPEAT PLAYBACK( ) display.

3 Press Cursor ▼ button to select the desired Repeat Playback mode.

4 Press **ENTER** button.

* For MP3 and JPEG discs, you cannot select Repeat Play from the information display screen.



OPERATION

Repeat Playback Options

- **CHAPTER :** Repeatedly plays the selected chapter.
- **TITLE** : Repeatedly plays the selected title.
- **GROUP** : Repeatedly plays the selected group.
- **RANDOM** : Plays tracks in random order.
  (A track that has already been played may be played again.)
- **TRACK** : Repeatedly plays the selected track.
- **DIR** : Repeatedly plays all tracks in the selected folder.
- **DISC** : Repeatedly plays the entire disc.
- **OFF** : Cancels Repeat Playback.

Note

- Repeat playback operation is not possible with version 2.0 VCD discs if PBC is turned on. To use Repeat Playback on a VCD with PBC, you should set the PBC to OFF in the disc menu. (See page 43.)

A-B Repeat Playback

DVD VCD CD

1 Press **INFO** button twice.

- For a VCD or CD, press **INFO** button once.

DVD EN 1/3 OFF/ 02 OFF

2 Press Cursor ▶ button to move to REPEAT PLAYBACK ( ) display.

DVD EN 1/3 OFF/ 02 OFF

3 Press Cursor ▲,▼ buttons to select 'A-' and then press **ENTER** button at the beginning of the desired segment.

- When **ENTER** button is pressed, the selected position will be stored in memory.

DVD EN 1/3 OFF/ 02 A -

DVD EN 1/3 OFF/ 02 A -?

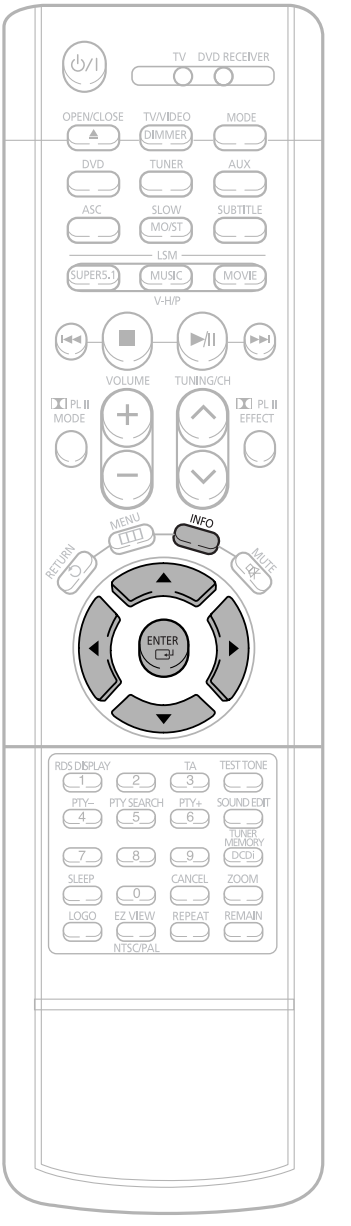
REPEAT : A—

4 Press **ENTER** button at the end of the desired segment.

- The specified segment will be played repeatedly.

DVD EN 1/3 OFF/ 02 A - B

REPEAT : A—B



To return to normal playback, press Cursor ▲,▼ buttons to select OFF.

Note

- The A-B Repeat function will not work on an MP3 or JPEG disc.

Angle Function

This function allows you to view the same scene in different angles.

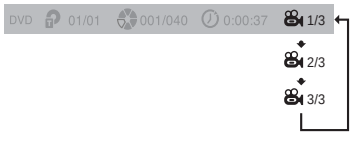
DVD

1 Press **INFO** button.

2 Press Cursor ▶ button to move to ANGLE ( ) display.

3 Press Cursor ▲, ▼ or numeric buttons to select the desired angle.

- Each time the button is pressed, the angle changes as follows:



Note

- The Angle function works only with discs on which multiple angles have been recorded.

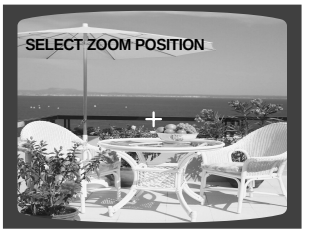
Zoom Function

This function allows you to enlarge a particular area of the displayed image.

Zoom (Screen Enlarge) Function

DVD VCD

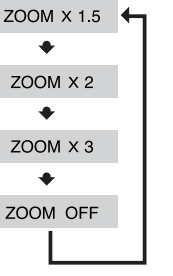
1 Press **ZOOM** button.



2 Press Cursor ▲, ▼, ◀, ▶ buttons to move to the area you want to enlarge.

3 Press **ENTER** button.

- Each time the button is pressed, the zoom level changes as follows:



Aspect Ratio

DVD

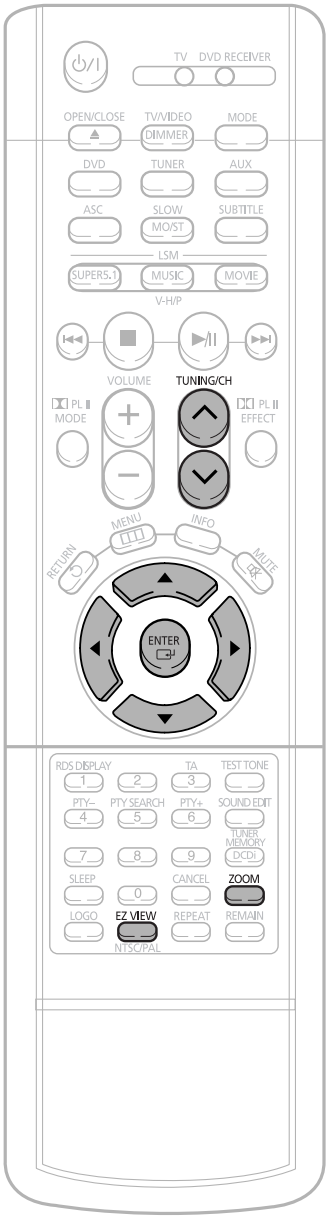
Press **EZ VIEW** button.

- Each time the button is pressed, the zoom function will switch between On and Off.
- When a movie is played in Widescreen format, black bars at the top and bottom of the TV screen can be removed by pressing the **EZ VIEW** button.

Note

- This function will not work if the DVD is recorded with multi-camera angle format.
- Black bars may not disappear because some DVD discs have a built-in horizontal to vertical ratio.

Bonus Group / Navigating Pages

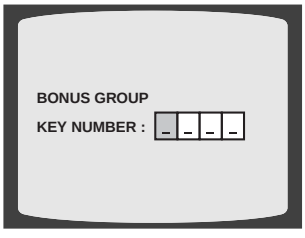


Bonus Group

DVD-AUDIO

Some DVD-Audio discs have an extra 'bonus' group that requires a 4-digit key number to access. See the disc packaging for details and the-key number.

When you play a DVD-Audio disc that has a bonus group, the key number input screen appears automatically.



Note

- If you eject the disc, switch the power off, or unplug the player, you will need to re-enter the key number.

Navigating Pages

DVD-AUDIO

During playback, press the TUNING/CH button on the remote control.

- You can select the desired image from a DVD-Audio disc containing still images.
- With some discs, you may not be able to select images depending on how the disc was manufactured.

Selecting Audio/Subtitle Language

Audio Language Selection Function DVD

1 Press **INFO** button twice.

DVD EN 1/3 OFF/ 02 OFF

2 Press Cursor ▲ ,▼ buttons or numeric buttons to select the desired audio language.

- Depending on the number of languages on a DVD disc, a different audio language (ENGLISH, SPANISH, FRENCH, etc.) is selected each time the button is pressed.

DVD EN 1/3 OFF/ 02 OFF
◆ SP 2/3
◆ FR 3/3

Subtitle Language Selection Function DVD

1 Press **INFO** button twice.

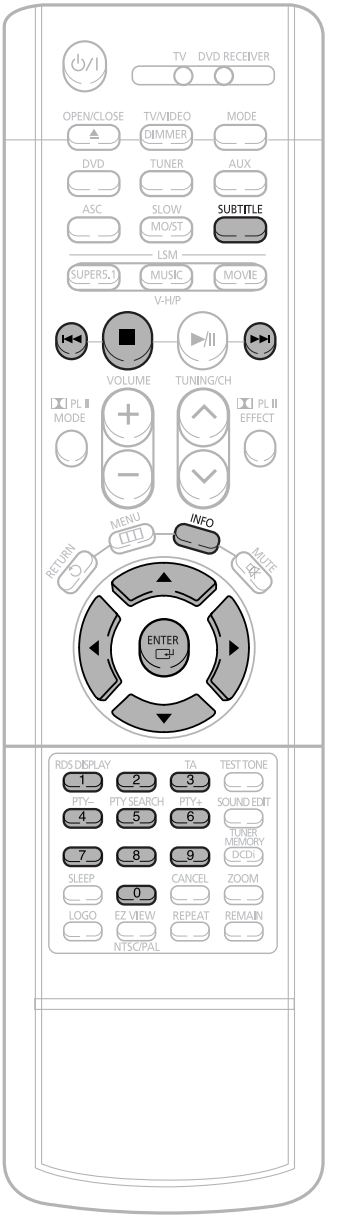
DVD EN 1/3 OFF/ 02 OFF

2 Press Cursor ▶ button to move to SUBTITLE ( ) display.

DVD EN 1/3 OFF/ 02 OFF

3 Press Cursor ▼ button or numeric buttons to select the desired subtitle.

DVD EN 1/3 EN 01/ 03 OFF
◆ SP 02/ 03
◆ FR 03/ 03
◆ OFF / 03



Note

- You can use the SUBTITLE button on the remote control to select a subtitle language.
- Depending on the disc, the Subtitle and Audio Language functions may not work.

Moving Directly to a Scene/Song

DVD VCD CD

1 Press **INFO** button.

DVD 01/05 001/040 0:00:37 1/1

Moving to a Title/Track

2 Press Cursor ▲,▼ buttons or numeric buttons to select the desired title/track and then press **ENTER** button.

DVD 03/05 001/002 0:00:01 1/1

Moving to a Chapter

3 Press Cursor ◀,▶ buttons to move to Chapter ( ) display.

DVD 01/05 001/040 0:00:01 1/1

Moving to a Chapter

4 Press Cursor ▲,▼ buttons or numeric buttons to select the desired chapter and then press **ENTER** button.

DVD 01/05 025/040 0:00:01 1/1

Moving to a Specific Time

5 Press Cursor◀,▶ buttons to move to time display.

DVD 01/05 025/040 1:17:30 1/1

Moving to a Specific Time

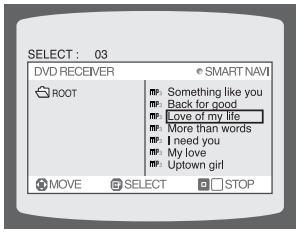
6 Press the numeric buttons to select the desired time and then press **ENTER** button.

DVD 01/05 028/040 1:30:00 1/1

MP3 JPEG

Press the **numeric** buttons.

- The selected file will be played.
- An MP3 or JPEG disc cannot be moved from the disc information screen.
- When playing an MP3 or JPEG disc, you cannot use ▲,▼ to move a folder. To move a folder, press ■ (Stop) and then press ▲,▼ .



Note

- You can press ⏮ ⏭ on the remote control to move directly to the desired title, chapter, or track.
- Depending on the disc, you may not be able to move to the selected title or time.

OPERATION

Using Disc Menu

You can use the menus for the audio language, subtitle language, profile, etc.
DVD menu contents differ from disc to disc.

DVD

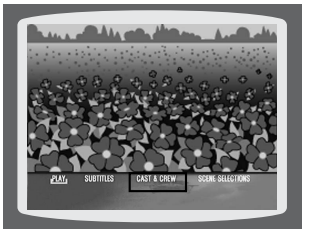
1 In Stop mode, press **MENU** button.

- When playing a VCD (version 2.), this toggles between PBC ON and OFF.

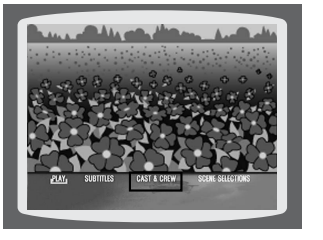
2 Press Cursor ▲,▼ buttons to move to 'DISC MENU' and then press **ENTER** button.

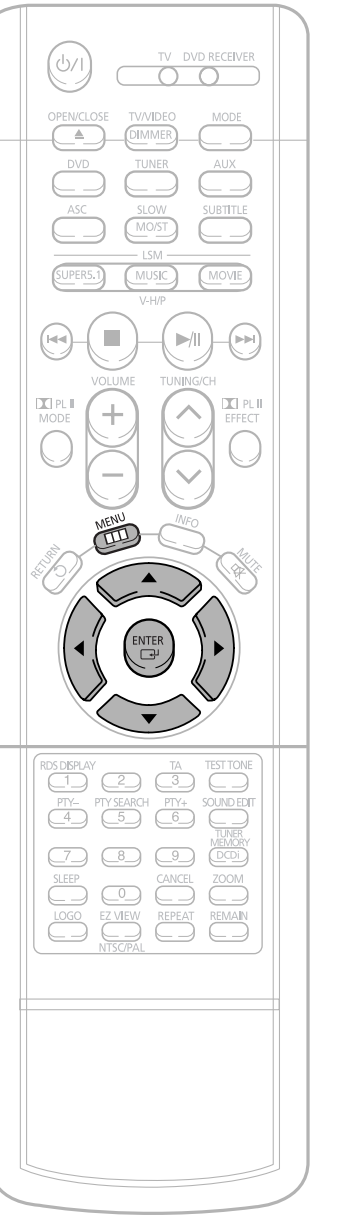
- When you select the disc menu that is not supported by the disc, the "**This menu is not supported**" message appears on the screen.

3 Press Cursor ▲,▼ ◀, ▶ buttons to select the desired item.



4 Press **ENTER** button.





Note

PBC (Playback Control) Function

Press the MENU button while VCD 2.0 version disk is played.
Each time you press the button, "**PBC ON**" and "**PBC OFF**" will be repetitively selected in the TV screen.

- **PBC ON:** This VCD disc is version 2.0. The disc is played back according to the menu screen. Some functions may be disabled. When some functions are disabled, select "PBC OFF" to enable them.
- **PBC OFF:** This VCD disc is version 1.1. The disc is played back in the same way as with a music CD.

Using the Title Menu

For DVDs containing multiple titles, you can view the title of each movie.
Depending on the disc, this function may either not work at all or may work differently.

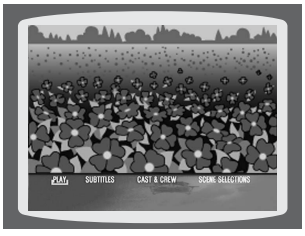
DVD

1 In Stop mode, press **MENU** button.

2 Press Cursor ▲ ,▼ button to move to 'Title Menu'.

3 Press **ENTER** button.

- The title menu appears.

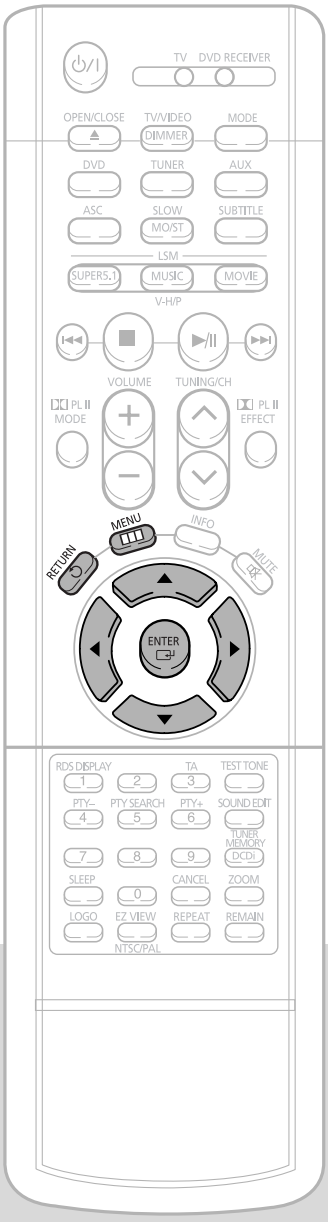


Press **MENU** button to exit the setup screen.

OPERATION

Setting the Language

OSD language is set to English by default.



1 In Stop mode, press **MENU** button.

2 Press Cursor ▼ button to move to 'Setup' and then press **ENTER** button.

Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

3 Press **ENTER** button.

4 Press Cursor ▲,▼ button to select the desired item and then press **ENTER** button.

5 Press Cursor ▲,▼ button to select the desired language and then press **ENTER** button.

- Once the setup is complete, if the language was set to English, OSD will be displayed in English.

SETUP

Selecting the OSD Language

Selecting the Audio Language (recorded on the disc)

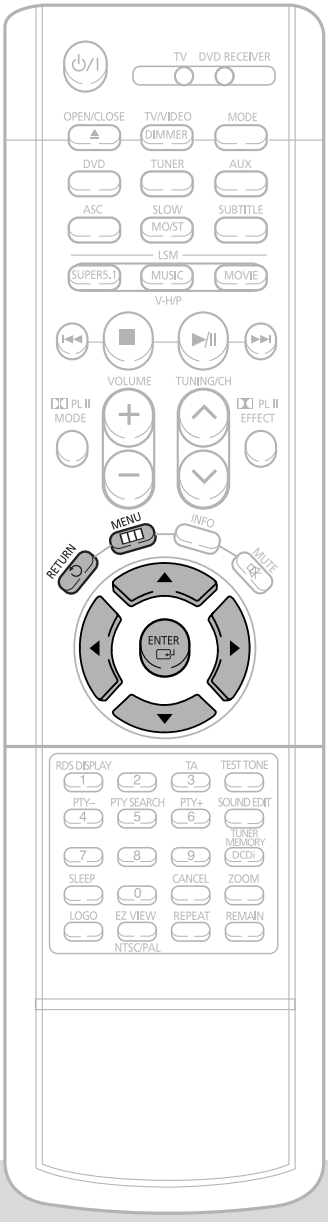
Selecting the Subtitle Language (recorded on the disc)

Selecting the Menu Language (recorded on the disc)

* If the language you selected is not recorded on the disc, menu language will not change even if you set it to your desired language.

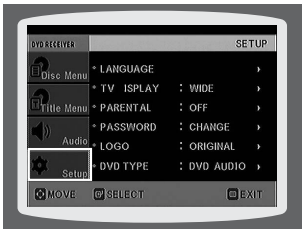
Setting TV Screen type

Depending on your TV type (Wide Screen TV or conventional 4:3 TV), you can select the TV's aspect ratio.



1 In Stop mode, press **MENU** button.

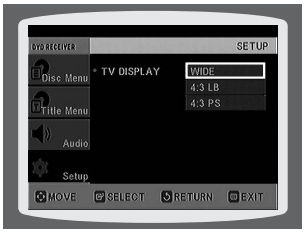
2 Press Cursor ▼ button to move to 'Setup' and then press **ENTER** button.



3 Press Cursor ▼ button to move to 'TV DISPLAY' and then press **ENTER** button.

4 Press Cursor ▲,▼ button to select the desired item and then press **ENTER** button.

- Once the setup is complete, you will be taken to the previous screen.



Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

Adjusting the TV Aspect Ratio (Screen Size)

The horizontal to vertical screen size ratio of conventional TVs is 4:3, while that of wide screen and high definition TVs is 16:9. This ratio is called the aspect ratio. When playing DVDs recorded in different screen sizes, you should adjust the aspect ratio to fit your TV or monitor.

✶ For a standard TV, select either "4:3LB" or "4:3PS" option according to personal preference. Select "16:9" if you have a wide screen TV.

WIDE : Select this to view a 16:9 picture in the full-screen mode on your wide screen TV.
- You can enjoy the wide screen aspect.

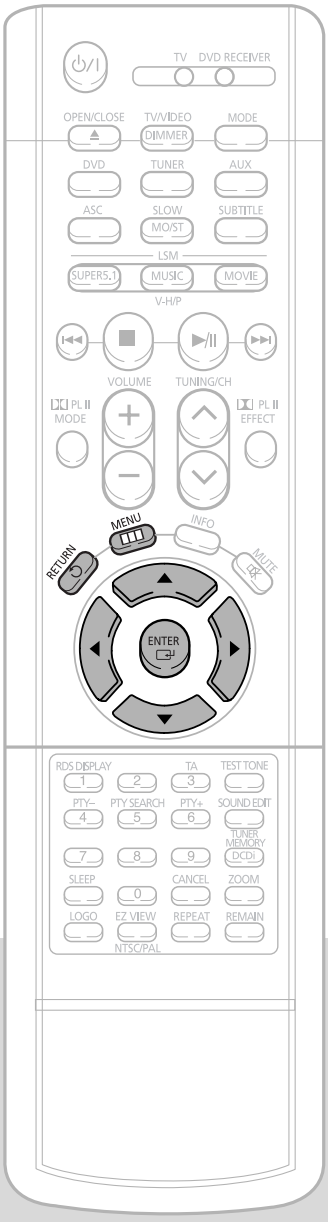
4:3LB (4:3 Letterbox) : Select this to play a 16:9 picture in the letter box mode on a conventional TV.
- Black bars will appear at the top and bottom of the screen.

4:3PS (4:3 Pan&Scan) : Select this to play a 16:9 picture in the pan & scan mode on a conventional TV.
- You can see the central portion of the screen only (with the sides of the 16:9 picture cut off).

Note
- If a DVD is in the 4:3 ratio, you cannot view it in wide screen.
- Since DVD discs are recorded in various image formats, they will look different depending on the software, the type of TV, and the TV aspect ratio setting.

Setting Parental Controls (Rating Level)

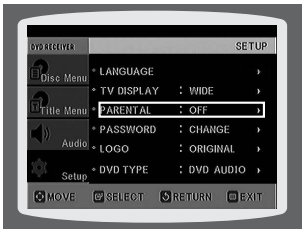
Use this to restrict playback of adult or violent DVDs you do not want children to view.



1 In Stop mode, press **MENU** button.

2 Press Cursor ▼ button to move to 'Setup' and then press **ENTER** button.

3 Press Cursor ▼ button to move to 'PARENTAL' and then press **ENTER** button.

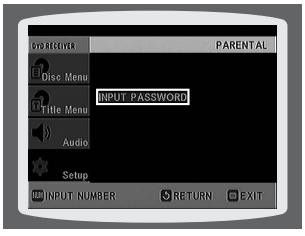


4 Press Cursor ▲, ▼ button to select the desired rating level and then press **ENTER** button.

- If you have selected Level 6, you cannot view DVDs with Level 7 or higher.
- The higher the level, the closer the content is to violent or adult material.

5 Enter the password and then press **ENTER** button.

- The password is set to "7890" by default.
- Once the setup is complete, you will be taken to the previous screen.



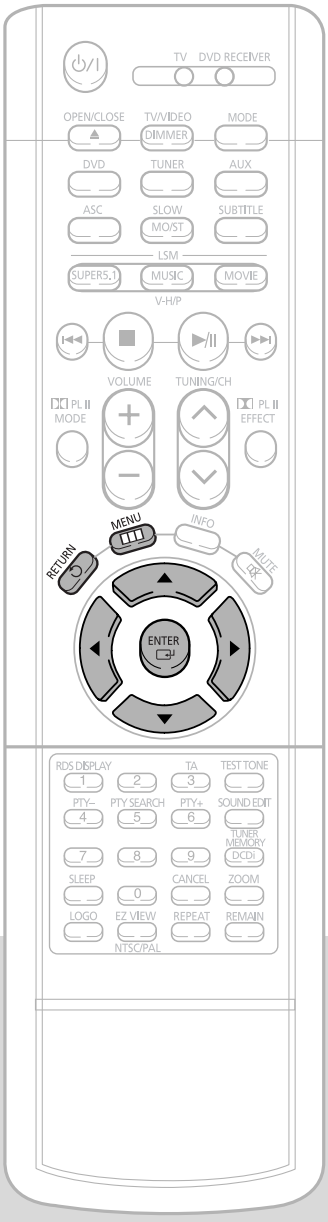
Note • This function works only if a DVD disc contains the rating level information.

Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

Setting the Password

You can set the password for the Parental (rating level) setting.



1 Press **MENU** button.

2 Press Cursor ▼ button to move to 'Setup' and then press **ENTER** button.

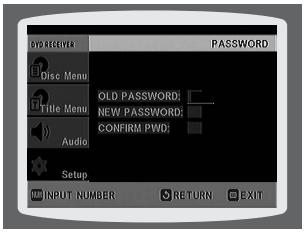
Note • The password is set to "7890" by default.

3 Press Cursor ▼ button to move to 'PASSWORD' and then press **ENTER** button.

4 Press **ENTER** button.

5 Enter the password and then press **ENTER** button.

- Enter the old password, a new password, and confirm new password.
- The setting is complete.



Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

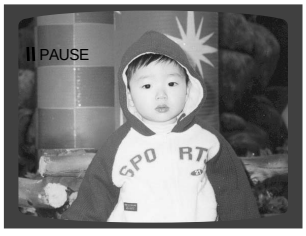
Setting the Wallpaper

JPEG DVD VCD

While watching a DVD, VCD or JPEG CD, you can set the image you like as background wallpaper.

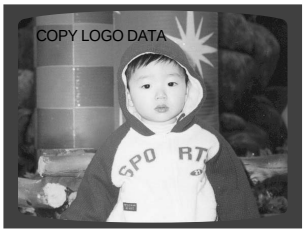
Setting the Wallpaper

1 During playback, press **PLAY/PAUSE** button when an image you like appears.



2 Press **LOGO** button.

- "**COPY LOGO DATA**" will be displayed on the TV screen.

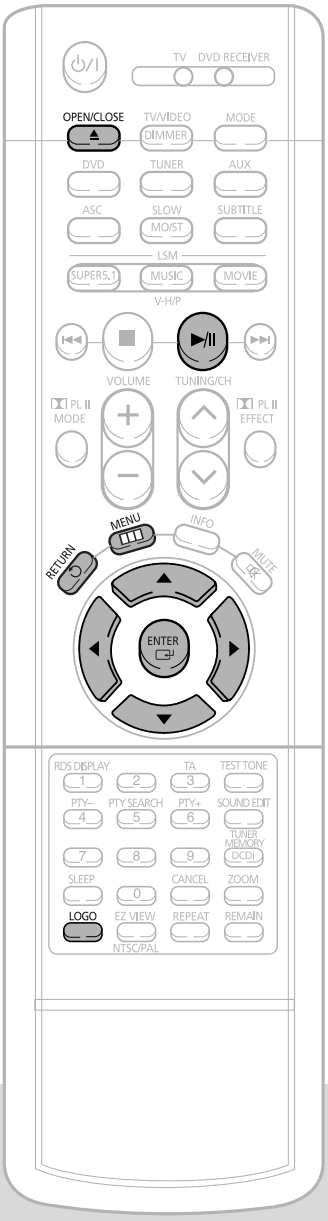


3 The power will turn off and then back on and the disc tray will open automatically.

- The selected wallpaper will be displayed.

4 Press **OPEN/CLOSE** to close the disc tray.

- You can repeat Steps 1 and 2 to set up to 3 wallpapers.



Select this to set the Samsung Logo image as your wallpaper.

Select this to set the desired image as your wallpaper.

To Change the Wallpaper

1 In Stop mode, press **MENU** button.

2 Press Cursor ▼ button to move to 'Setup' and then press **ENTER** button.

3 Press Cursor ▼ button to move to 'LOGO' and then press **ENTER** button.

4 Press ▼ to select the desired 'USER', and then press **ENTER**.

5 Press **MENU** button to exit the setup screen.

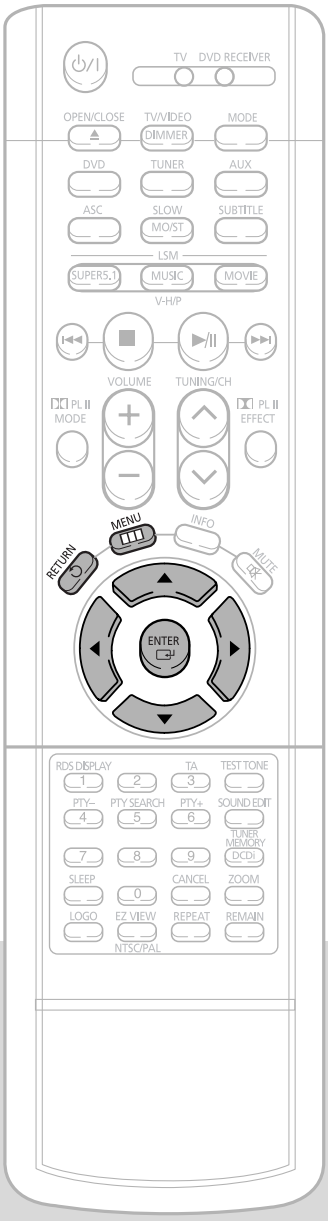
SETUP

Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

DVD Playback Mode

Some DVD-Audio discs contain DVD-Video as well as DVD-Audio.
To play back the DVD-Video portion of the DVD-Audio disc, set the unit to DVD-Video mode.



1 Press the **MENU** button while the disc tray is open.

2 Press Cursor ▼ button to move to 'Setup' and then press **ENTER** button.

Note

- DVD Play mode is set to DVD Audio as factory default setting.

3 Press Cursor ▼ button to move to 'DVD TYPE' and then press **ENTER** button.

4 Press Cursor ▲,▼ button to move to 'DVD VIDEO' and then press **ENTER** button.

- Set steps 1 ~ 4 again if you want to switch to DVD AUDIO Play mode.

When Selecting DVD Play Mode:

- **DVD VIDEO** : set to play the DVD video contents contained in DVD audio disc.
- **DVD AUDIO** : set to play the default DVD audio.

Press **RETURN** button to return to the previous level.

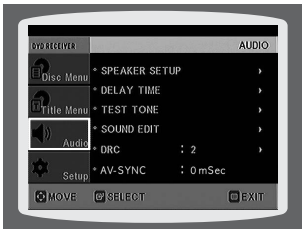
Press **MENU** button to exit the setup screen.

Setting the Speaker Mode

Signal outputs and frequency responses from the speakers will automatically be adjusted according to your speaker configuration and whether certain speakers are used or not.

1 In Stop mode, press **MENU** button.

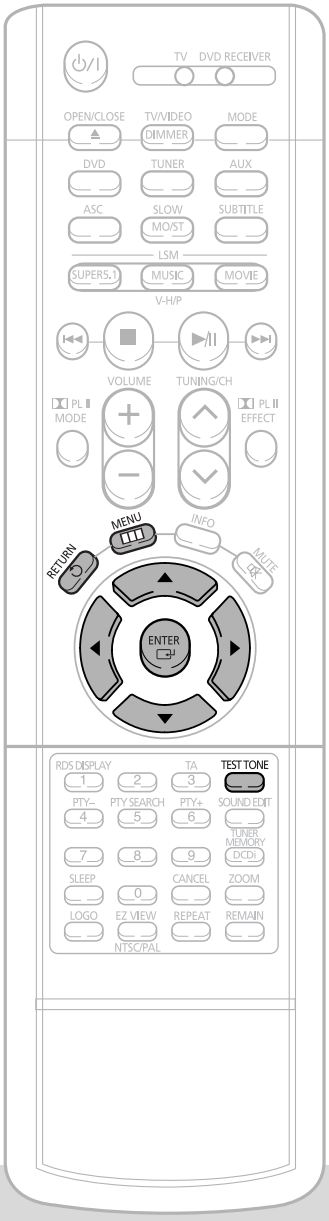
2 Press Cursor ▼ button to move to 'Audio' and then press **ENTER** button.



3 In the Speaker Setup, press the **ENTER** button again.

4 Press Cursor ▲, ▼, ◀, ▶ buttons to move to the desired speaker and then press **ENTER** button.

- For C, LS, and RS, each time the button is pressed, the mode switches alternately as follows: SMALL → NONE.
- For L and R, the mode is set to SMALL.



SMALL : Select this when using the speakers.
NONE : Select this when no speakers are installed.

Note

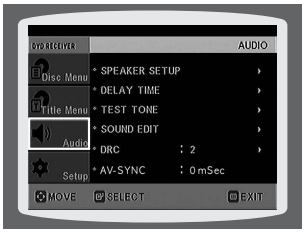
- Depending on PRO LOGIC and STEREO, the speaker mode may vary.

Setting the Test Tone

Use the Test Tone feature to check the speaker connections and to adjust the speaker levels.

1 In Stop mode, press **MENU** button.

2 Press Cursor ▼ button to move to 'Audio' and then press **ENTER** button.



3 Press Cursor ▼ button to move to 'TEST TONE' and then press **ENTER** button.

- The test tone will be sent to L → C → R → RS → LS → SW in that order. If the ENTER button is pressed again at this time, the test tone will stop.

Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

SETUP

Alternate method: press the **TEST TONE** button on the remote.

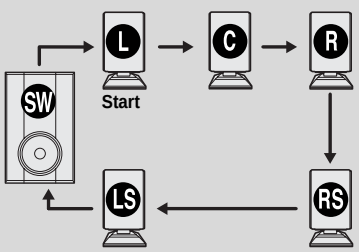
L: Front Speaker (L) C: Center Speaker SW: Subwoofer
R: Front Speaker (R) LS: Rear Speaker (L) RS: Rear Speaker (R)

Press **TEST TONE** button.

- Test tone will be produced as follows: When playing a DVD or CD, this will work only in Stop mode.
- Use this function to check that each speaker is correctly connected and that there is no problem.

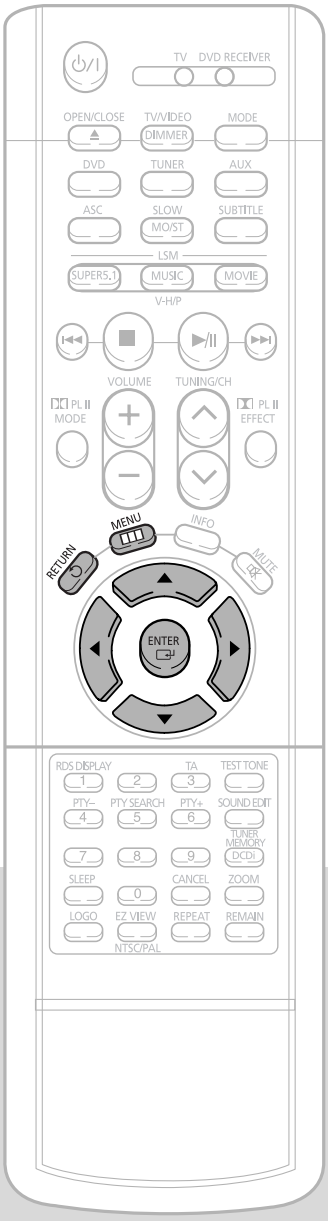
To end the test tone, press **TEST TONE** button again.

Multi-Channel Pro Logic Mode



Setting the Delay Time

If the speakers cannot be placed at equal distances from the listening position, you can adjust the delay time of the audio signals from the center and rear speakers.



1 In Stop mode, press **MENU** button.

2 Press Cursor ▼ button to move to 'Audio' and then press **ENTER** button.

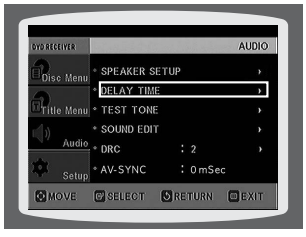
Setting up the Speaker Delay Time

When 5.1CH Surround Sound is played, you can enjoy the best sound if the distance between you and each speaker is the same. Since the sounds arrive at the listening position at different times depending on the placement of speakers, you can adjust this difference by adding a delay effect to the sound of the Center Speaker and Surround Speakers.

Note

- With PL (Dolby Pro Logic II), the delay time may be different for each mode.
- With AC-3 and DTS, the delay time can be set between 00 and 15mSEC.

3 Press Cursor ▼ button to move to 'DELAY TIME' and then press **ENTER** button.



4 Press Cursor ▲, ▼, ◀, ▶ buttons to move to the desired speaker and then press **ENTER** button.

5 Press Cursor ◀, ▶ to set the Delay time.

- You can set the delay time for C between 00 and 05mSEC and for LS and RS between 00 and 15mSEC.

SETUP

- **Setting CENTER SPEAKER**

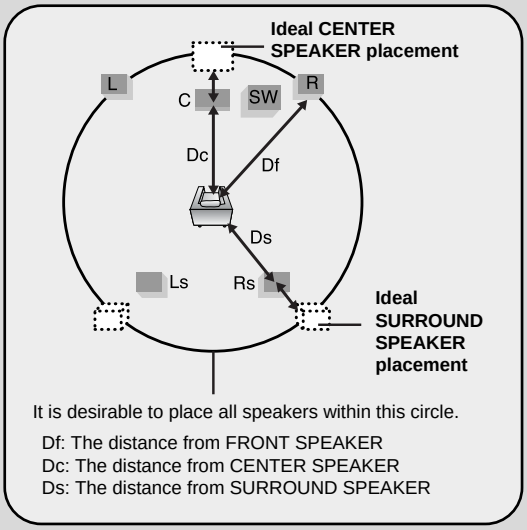
If the distance of Dc is equal to or longer than the distance of Df in the figure, set the mode as 0ms. Otherwise, change the setting according to the table.

Distance between Df and Dc	Delay Time
0.00 m	0 ms
0.34 m	1 ms
0.68 m	2 ms
1.02 m	3 ms
1.36 m	4 ms
1.70 m	5 ms

- **Setting REAR (SURROUND) SPEAKERS**

If the distance of Df is equal to the distance of Ds in the figure, set the mode as 0ms. Otherwise, change the setting according to the table.

Distance between Df and Ds	Delay Time
0.00 m	0 ms
1.02 m	3 ms
2.04 m	6 ms
3.06 m	9 ms
4.08 m	12 ms
5.10 m	15 ms

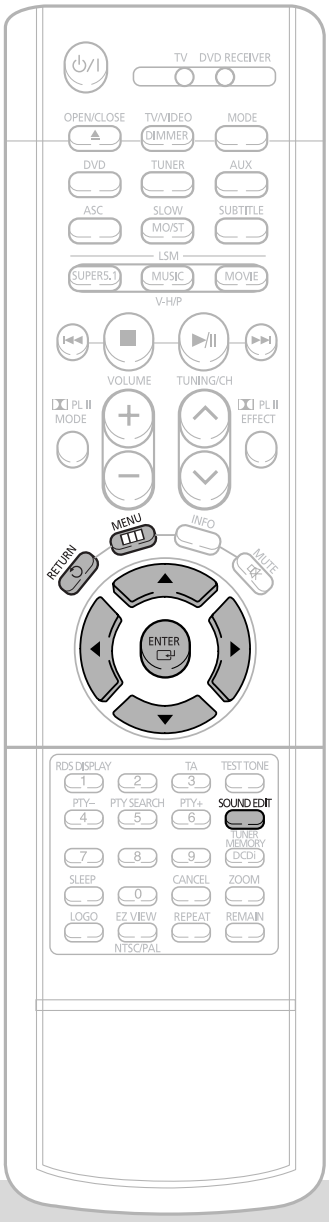


It is desirable to place all speakers within this circle.

Df: The distance from FRONT SPEAKER
Dc: The distance from CENTER SPEAKER
Ds: The distance from SURROUND SPEAKER

Setting the Audio Quality

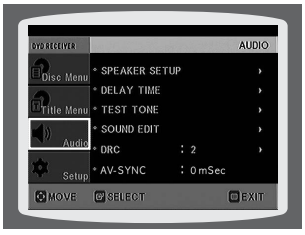
You can adjust the balance and level for each speaker.



Method 1 When adjusting the audio quality using the setup screen

1 In Stop mode, press **MENU** button.

2 Press Cursor ▼ button to move to 'Audio' and then press **ENTER** button.



3 Press Cursor ▼ button to move to 'SOUND EDIT' and then press **ENTER** button.

4 Press Cursor ▲,▼ buttons to select and adjust the desired item. Press the ◀,▶ buttons to adjust the settings.

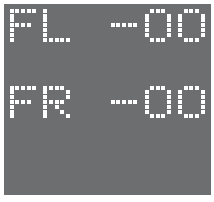
Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

Method 2 When manually adjusting with the SOUND EDIT button

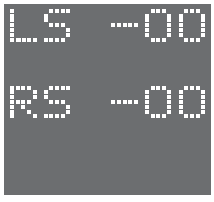
Adjusting Front Speaker Balance

1 Press **SOUND EDIT** button and then press Cursor ◀, ▶.



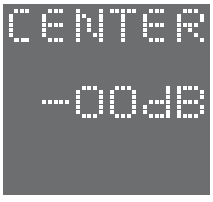
Adjusting Rear Speaker Balance

2 Press **SOUND EDIT** button and then press Cursor ◀, ▶.



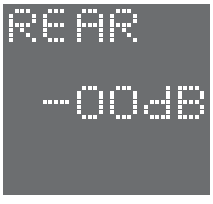
Adjusting Center Speaker Level

3 Press **SOUND EDIT** button and then press Cursor ◀, ▶.



Adjusting Rear Speaker Level

4 Press **SOUND EDIT** button and then press Cursor ◀, ▶.



SETUP

Note

- **The adjustments will appear on the main unit, not on your TV screen.**

Adjusting Front/Rear Speaker Balance

- You can select between 00 and –06 and OFF.
- The volume decreases as you move closer to –6.

Adjusting Center/Rear/Subwoofer Speaker Level

- You can adjust volume level from -6dB to +6dB.
- The sound gets louder as you move closer to +6dB and quieter as you get closer to -6dB.

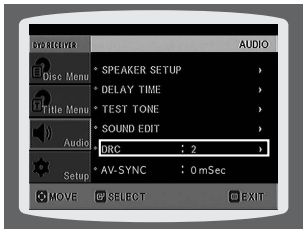
Setting the DRC (Dynamic Range Compression)

You can use this function to enjoy Dolby Digital sound when watching movies at low volume at night.

1 In Stop mode, press **MENU** button.

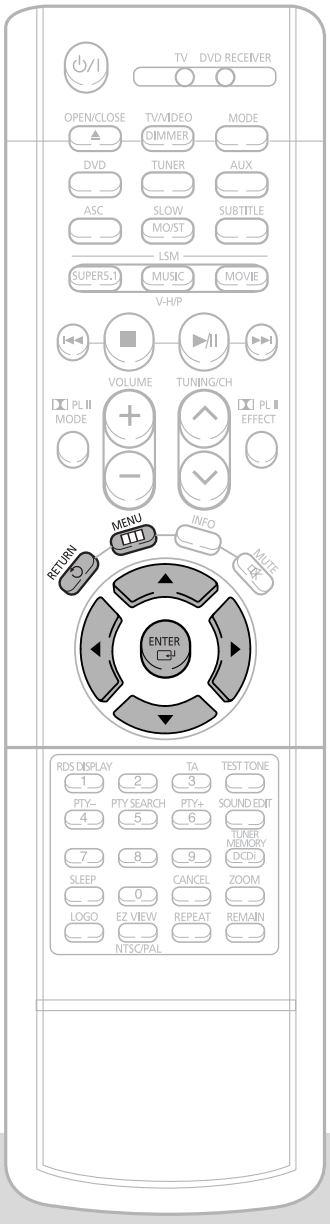
2 Press Cursor ▼ button to move to 'Audio' and then press **ENTER** button.

3 Press Cursor ▼ button to move to 'DRC' and then press **ENTER** button.



4 Press Cursor ▲, ▼ to adjust the 'DRC'.

- Pressing the Cursor ▲ button increases the compression, and pressing the Cursor ▼ reduces it.



Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

AV SYNC Setup

Video may lag behind the audio if the unit is connected to a digital TV.
If this occurs, adjust the audio delay time to sync up with the video.

1 Press the **MENU** button.

- Setup menu appears.

2 Press Cursor ▲, ▼ buttons to move to 'Audio' and then press **ENTER** button.

- 'Audio' menu appears.

3 Press Cursor ▲, ▼ buttons to move to 'AV-SYNC' and then press **ENTER** button.

- AV-SYNC screen appears.

4 Press Cursor ▲, ▼ buttons to select the Delay Time of AV-SYNC and then press the **ENTER** button.

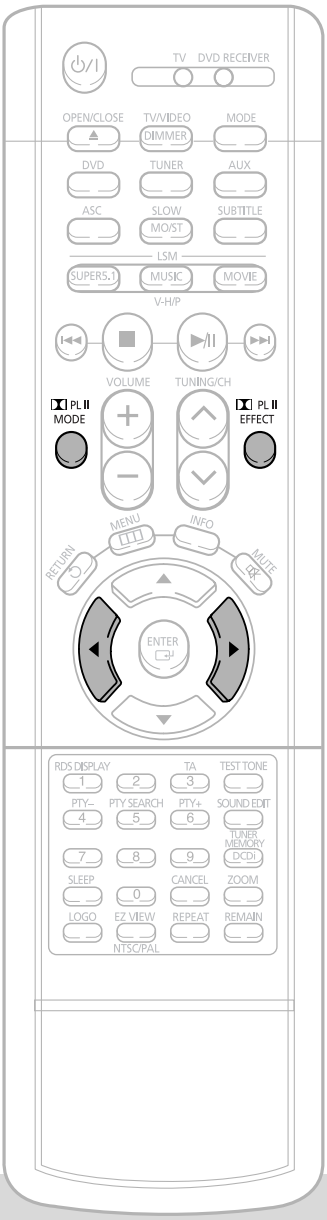
- You can set the audio delay time between 0 ms and 300 ms. Set it for the best sync up with audio.

Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

Dolby Pro Logic II Mode

You can select the desired Dolby Pro Logic II audio mode.



Press **PL II MODE** button.

- Each time the button is pressed, the mode changes as follows.

PRO LOGIC II

- **MUSIC :** When listening to music, you can experience sound effects as if you are listening to the actual performance.
- **CINEMA :** Adds realism to the movie soundtrack.
- **PRO LOGIC :** You will experience a realistic multi-channel effect, as if using five speakers, while using just the front left and right speakers.
- **MATRIX :** You will hear 5.1 channel surround sound.
- **STEREO : Select this to listen to sounds from the front left and right speakers and the subwoofer only.**

Note

- When selecting Pro Logic II mode, connect your external device to the AUDIO INPUT jacks (L and R) on the player. If you connect to only one of the inputs (L or R), you cannot listen to 5.1 channel surround sound.

Dolby Pro Logic II Effect

This function works only in Dolby Pro Logic MUSIC mode.

1 Press **PL II MODE** button to select 'MUSIC' mode.

2 Press **PL II EFFECT** button and then press Cursor ◀ , ▶ buttons to select the mode.

- You can select either 0 or 1.

3 Press **PL II EFFECT** button and then press Cursor ◀ , ▶ buttons to select the mode.

- You can select between 0 and 7.

4 Press **PL II EFFECT** button and then press Cursor ◀ , ▶ buttons to select the mode.

- You can select between 0 and 6.

Note

- When playing a DVD disc encoded with two or more channels, multi-channel mode will be selected automatically and PL II (Dolby Pro Logic II) button does not work.

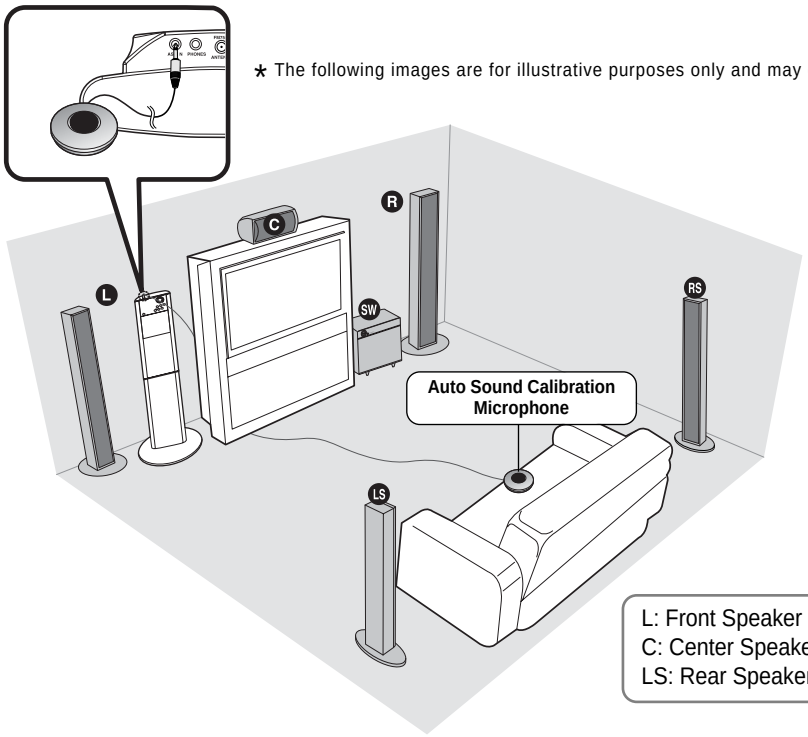
- **PANORAMA:** This mode extends the front stereo image to include the surround speakers for an exciting "wraparound" effect with side wall imaging.
- **CENTER WIDTH:** Sound is output to the center speaker only. The front left and right speakers produce phantom sound.
- **DIMENSION:** Incrementally adjusts the sound field (DSP) from the front or rear.

Auto Sound Calibration Setup

* This function is available only for DVD/CD playback.

Auto Sound Calibration

By setting the auto sound calibration function just once when you relocate or install the unit, you can have the unit automatically recognize the distance between speakers, levels between channels, and frequency characteristics to create 5.1-channel sound field optimized for the listener's environment.



* The following images are for illustrative purposes only and may differ from the actual product.

L: Front Speaker (L)	R: Front Speaker (R)
C: Center Speaker	SW: Subwoofer
LS: Rear Speaker (L)	RS: Rear Speaker (R)

Note

- If you purchased the unit for the first time or initialized it, pressing the Auto Sound Calibration button without connecting the auto sound calibration microphone will display the message "**PLEASE SET ASC FUNCTION FIRST**" in the display.
- Because the volume level of the tone is fixed during the auto sound calibration setup, you cannot adjust the volume using the volume control buttons.
- If the auto sound microphone is disconnected during the auto sound calibration setup, the setup will be cancelled.

To Turn the Sound Logo On/Off

When you turn on the power, the unit produces a sound logo after the disc is read to notify that the unit is optimized for playback.

1 Press and hold **ASC** button.

- "**S.LOGO ON**" or "**S.LOGO OFF**" appears in the display.

2 Briefly press **ASC** button.

- Each time the button is pressed, the selection alternates between **S.LOGO ON** and **S.LOGO OFF**.
- If you select "**S.LOGO ON**", a sound logo will be output when the disc reading is finished after power-on. If you select "**S.LOGO OFF**", no sound logo will be output.

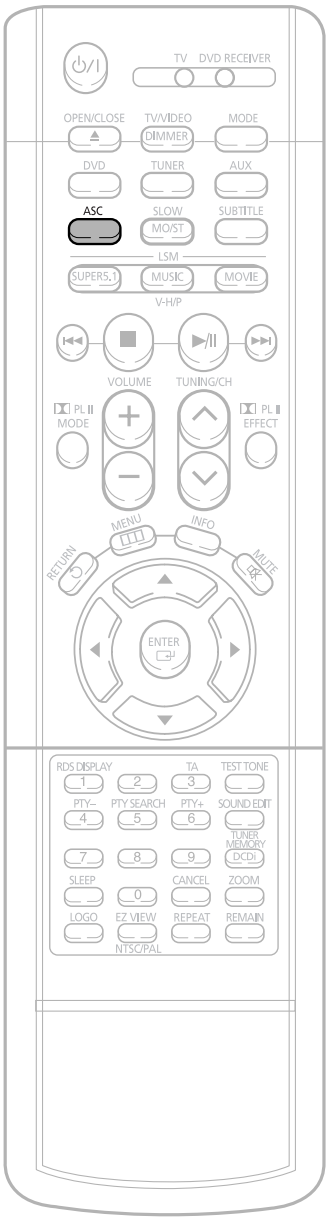
To Verify the Auto Sound Calibration

1 Press and hold **ASC** button twice.

- "**ASC CHECK**" appears in the display.

2 Briefly press **ASC** button.

- Distance and level values specified for each channel will appear in the display.



1 Plug the auto sound calibration microphone into the auto sound calibration input jack.

2 Place the auto sound calibration microphone at the listener's position.

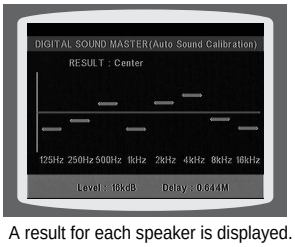
3 Adjust the volume control on the main unit as follows:

- If the distance between the listener and the speaker is over 5 m: Set the main unit's volume to over 25.
- If the distance between the listener and the speaker is 3 to 5 m: Set the main unit's volume to 25.
- If the distance between the listener and the speaker is below 3 m: Set the main unit's volume to 15.

4 Press ASC button.

- The tone will be output twice, in the given order (L → C → R → RS → LS → SW), and 5.1-channel sound field is optimized automatically.
- The auto sound calibration setup takes about 2 minutes to complete.

A tone is output.


DIGITAL SOUND MASTER(Auto Sound Calibration)
RESULT : Center
125Hz 250Hz 500Hz 1kHz 2kHz 4kHz 8kHz 16kHz
Level : 16dB
Delay : 0.644M

A result for each speaker is displayed.

A bell sounds and the setup finishes.

5 When the message "REMOVE MIC" appears in the display, unplug the auto sound calibration microphone.

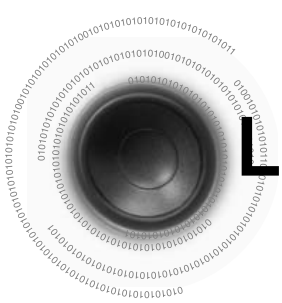
SETUP

To cancel the auto sound calibration setup, press ASC button.

- The tone output stops, "**CANCEL ASC**" appears in the display followed by "**REMOVE MIC**", and the setup is cancelled.

To listen in the auto sound calibration mode, briefly press ASC button.

- The selection alternates between **ASC ON** and **ASC OFF** in the display.
- If you select "**ASC ON**", you will hear sound in the auto sound calibration mode.
  If you select "**ASC OFF**", you will hear sound in the mode set in the audio setting of the setup screen.



Live Surround Mode

SUPER 5.1

You can reproduce a 2-channel sound source, such as CD, and radio broadcast, in 5.1-channel surround sound.

Press **SUPER5.1** button.

- Each time the button is pressed, the selection alternates between **SUPER 5.1** and **SUPER OFF**.
- Select "**SUPER 5.1**" to play 2-channel sound in 5.1 channels.

MUSIC

If you press the **MUSIC** button when listening to a 2-channel sound source, it will be reproduced in 5.1-channel surround sound so that you can enjoy a dynamic sound with a sense of presence.

Press **MUSIC** button.

- Each time the button is pressed, the selection changes as follows: **LIVE → JAZZ → ROCK → CLASSIC → DISCO → LSM OFF**.

MOVIE

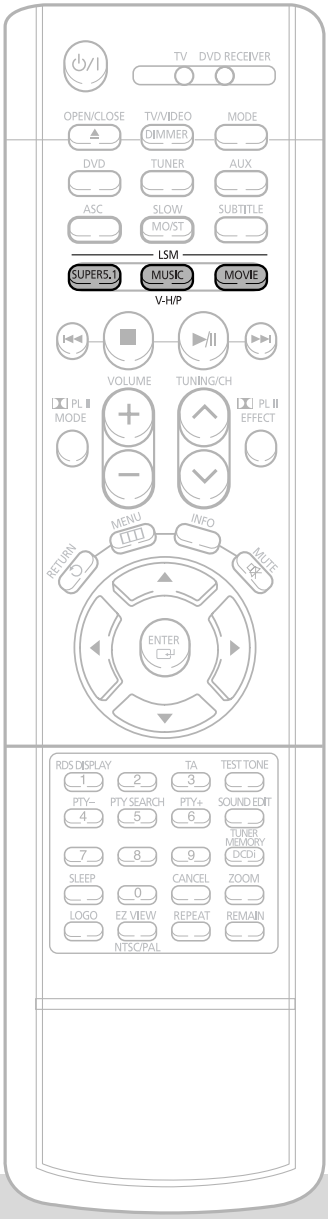
You can select from 3 different modes of sound field for movies.

Press **MOVIE** button.

- Each time the button is pressed, the selection changes as follows: **CINEMA → STADIUM → LSM OFF**.

Note

- When you insert a DVD recorded in 2-channel or multi-channel format and press the SUPER 5.1 button, the message "**THIS FUNCTION APPLIES ONLY 2CH SOURCE**" appears in the display and it will not work.

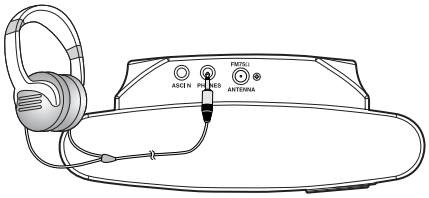


Virtual Headphone Function

Use headphones (not supplied) for private listening pleasure.
You can enjoy a dynamic sound effects similar to that of 5.1 channel surround sound using conventional stereo headphones.

1 Plug the headphones into the headphone jack.

- You can purchase headphones from most Electronics stores.



2 Press **V-H/P** button.

- Each time the button is pressed, the selection alternates between **V-H/P ON** and **V-H/P OFF**.

Note

- Do not listen at extremely high volume levels when using headphones. Extended, high-volume listening can lead to permanent hearing loss.

- **VIRTUAL HEADPHONE ON:** Select to enjoy a 5.1-channel surround sound that gives the feeling of being in a baseball park or concert hall.
- **VIRTUAL HEADPHONE OFF:** Select to listen to a standard 2-channel stereo sound.

Listening to Radio

You can listen to the chosen band (FM broadcast stations) by using either the automatic or manual tuning operation.

Remote Control Unit

1 Press **TUNER** button.

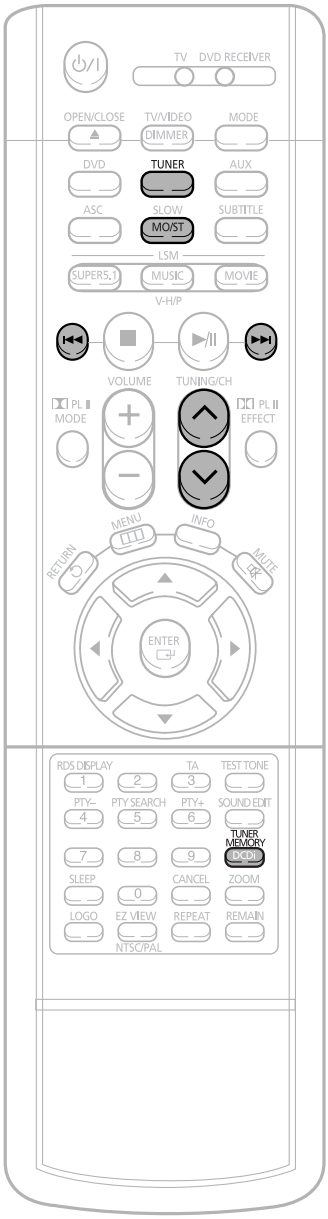
- The selection toggles back and forth between "FM" each time the **TUNER** button is pressed.

2 Tune in to the desired station.

Automatic Tuning 1 When ⏮ ⏭ is pressed, a preset broadcast station is selected.

Automatic Tuning 2 Press and hold TUNING/CH ⏶⏷ to automatically search for active broadcasting stations.

Manual Tuning Briefly press TUNING/CH ⏶⏷ to increase or decrease the frequency incrementally.



Main Unit

1 Press the **Function** button to select the desired band (FM).

2 Select a broadcast station.

Automatic Tuning 1 Press the **STOP** (■) button to select PRESET and then press ⏮ ⏭ button to select the preset station.

Automatic Tuning 2 Press the **STOP** (■) button to select "MANUAL" and then press and hold ⏮ ⏭ button to automatically search the band.

Manual Tuning Press **STOP** (■) to select MANUAL and then briefly press ⏮ ⏭ to tune in to a lower or higher frequency.

Press **MO/ST** button to listen in Mono/Stereo.
(This applies only when listening to an FM station.)

- Each time the button is pressed, the sound switches between "STEREO" and "MONO".
- In a poor reception area, select MONO for a clear, interference-free broadcast.

Presetting Stations

You can store up to: 15 FM stations

Example: Presetting FM 89.1 in the memory

1 Press the **TUNER** button and select the FM band.

2 Press TUNING/CH to select "89.10".

- Refer to Step 2 on page 71 to automatically or manually tune in to a station.

3 Press the **TUNER MEMORY** button.

- "PRGM" flashes in the display. Tune in to a station.

4 Press ⏮ ⏭ to select preset number.

- You can select between 1 and 15.

5 Press the **TUNER MEMORY** button again.

- Press the **TUNER MEMORY** button before 'PRGM' disappears from the display.
- 'PRGM' disappears from the display and the station is stored in memory.

6 To preset another station, repeat steps 2 to 5.

To tune in to a preset station, press ⏮ ⏭ on the remote control to select a channel.

About RDS broadcasting

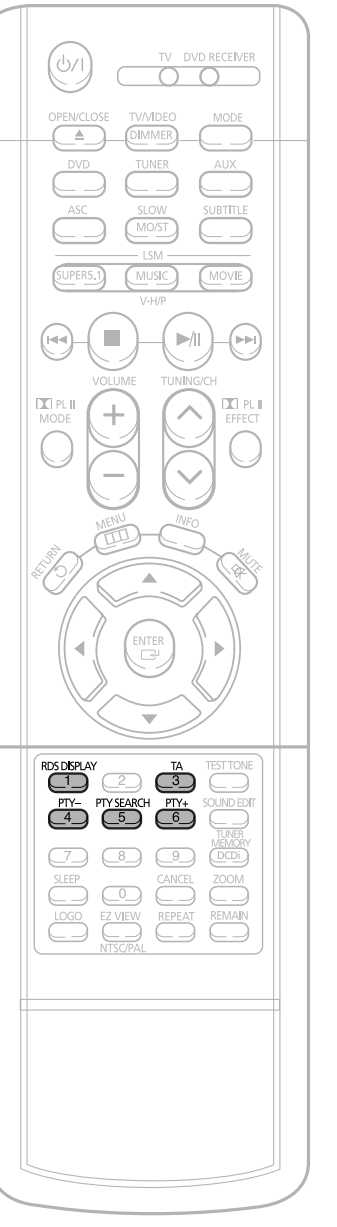
Using the RDS (Radio Data System) to receive FM stations

RDS allows FM stations to send an additional signal along with their regular program signals. For example,the stations send their station names,as well as information about what type of program they broadcast, such as sports or music,etc.

When tuned to an FM station which provides the RDS service,the RDS indicator lights up on the display.

- **Description on RDS function**

1. **PTY (Program Type) :** Displays the type of programme currently being broadcast
2. **PS NAME (Program Service Name) :** Indicates the name of broadcasting station and is composed of 8 characters.
3. **RT (Radio Text) :** Decodes the text broadcast by a station (if any) and is composed of maximum 64 characters.
4. **CT (Clock Time) :** Decodes the real time clock from the FM frequency.
   - Some stations may not transmit PTY, RT or CT information therefore this may not be displayed in all cases.
5. **TA (Traffic Announcement) :** When this symbol flashes it shows that the traffic announcement is in progress.



Note

- RDS is not available for AM broadcasts.
- RDS may not operate correctly if the station tuned is not transmitting RDS signal properly or if the signal strength is weak.

What information can RDS signals provide?

You can see the RDS signals the station sends on the display.

TO show the RDS signals

Press RDS DISPLAY while listening to an FM station.
Each time you press the button, the display change to show you the following information:

→ PS NAME → RT → CT → Frequency →

PS (Program Service) : While searching,"**PS**"appears and then the station names will be displayed."**NO PS**" appears if no signal is sent.
RT(RadioText) : while searching,"**RT**"appears and then text messages the station sends will be displayed. "**NO RT**"appears if no signal is sent.
Frequency : station frequency (non-RDS service)

About characters shown in the display

When the display shows PS,or RT signals,the following characters are used.

- The display window cannot differentiate upper case and lower case lrtters and always uses upper case letters.
- The display window cannot show accented letters, "**A**," for instance, may stans for accented "**A's**" like "**À, Â, Ã, Á, Åand Ã**."

Note

- If searching finishes at once,"**PS**",and "**RT**" will not appear on the display.

PTY (Program Type) indication and PTY-SEARCH function

One of the advantages of the RDS service is that you can locate a particular kind of program from the preset channels by specifying the PTY codes.

To search for a program using the PTY codes

Before you start, remember...

- The PTY Search is only applicable to preset stations.
- To stop searching any time during the process, press PTY SEARCH while searching.
- There is a time limit in doing the following steps. If the setting is cancelled before you finish, start from step 1 again.
- When pressing the buttons on the primary remote control, make sure that you have selected the FM station using the primary remote control.

1 Press PTY SEARCH while listenning to an FM station.

2 Press the PTY-or PTY+until the PTY code you want appears on the display.

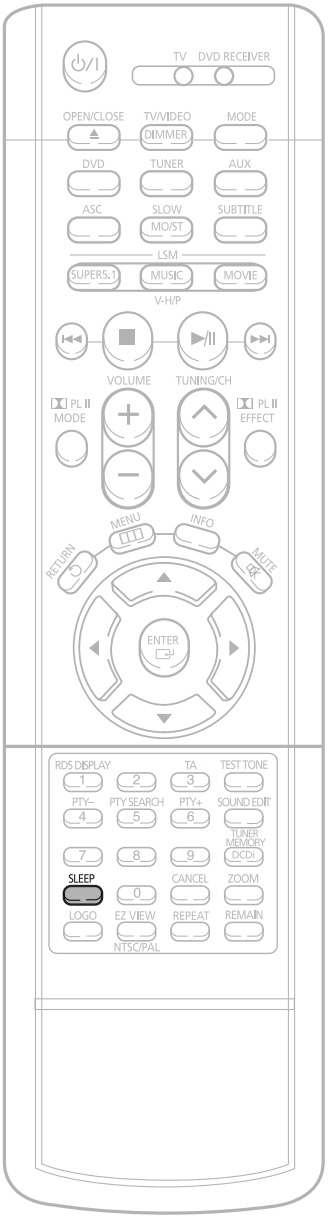
- The display gives you the PTY codes described to the right.

3 Press PTY SEARCH again, while the PTY code selected in the previous step is still on the display.

- The center unit searches 15 preset FM stations,stops when it finds the one you have selected, and tunes in that station.

Display	Program Type
NEWS	• News including an announced opinion and report
AFFAIRS	• Several matters including a current incident, documentary, discussion and analysis.
INFO	• Information including weights and measures, returns and forecast, matters interesting the customer, medical information, etc.
SPORT	• Sports
EDUCATE	• Education
DRAMA	• Drama-Radio serial, etc.
CULTURE	• Culture-National or local culture including the religious problem, social science, language, theater,etc.
SCIENCE	• Natural science and technology
VARIED	• Others-Speech, amusing program (quiz, game), interview, comedy and satirical play, etc.
POP M	• Pop music
ROCK M	• Rock music
M.O.R.M	• Current contemporary music considered to be “easylistening.”
LIGHT M	• Light classical music- Classical music and instrumental and chorus music
CLASSIC	• Heavy classical music-Orchestra music, symphony, chamber music and opera
OTHER M	• Other music - Jazz, R&B country music
WEATHER	• Weather
FINANCE	• Finance
CHILDREN	• Children’s programmes
SOCIAL A	• Social affairs
RELIGION	• Religion
PHONE IN	• Phone in
TRAVEL	• Travel
LEISURE	• Leisure
JAZZ	• Jazz Music
COUNTRY	• Country Music
NATION M	• National Music
OLDIES	• Oldies Music
FOLK M	• Folk Music
DOCUMENT	• Documentary

Convenient Functions



Sleep Timer Function

You can set the time that the DVD player will shut itself off.

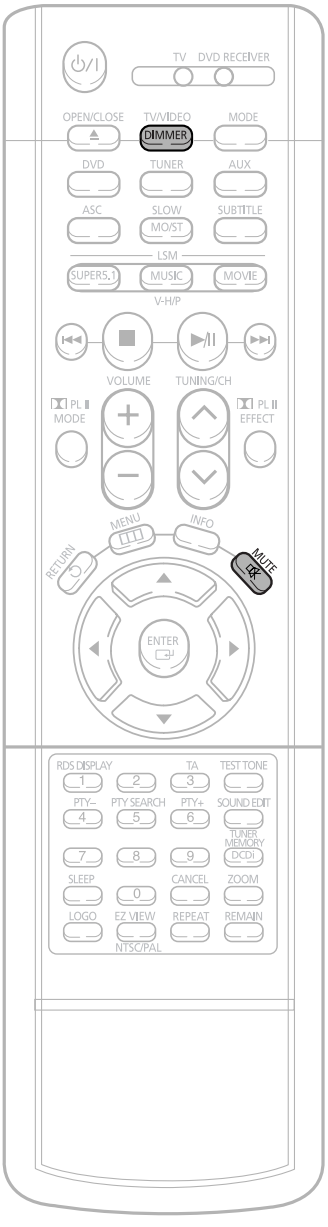
Press **SLEEP** button.

- "SLEEP" will be displayed. Each time the button is pressed the preset time changes as follows: 10 → 20 → 30 → 60 → 90 → 120 → 150 → OFF.

To confirm the sleep timer setting, press **SLEEP** button.

- The remaining time before the DVD player will shut itself off is displayed.
- Pressing the button again changes the sleep time from what you have set earlier.

To cancel the sleep timer, press **SLEEP** button until OFF appears on the display.



Adjusting Display Brightness

Touch your hands to the front of main unit to automatically turn on the LED and Operation Buttons.

Press **DIMMER** button.

- Press the **DIMMIER** button to toggle between **DIMMER AUTO → DIMMER ON → DIMMER OFF** on the Display.

DIMMER AUTO : Touch your hands to the operation buttons, and it will turn on for about 5 seconds and then turn off.

DIMMER ON : Operation buttons are always turned on.

DIMMER OFF : Operation buttons are always turned off.

Note

- In **DIMMER AUTO mode**, if you touch the LED buttons on the main unit once, firstly the LED brighten,and then touch again the function will work.

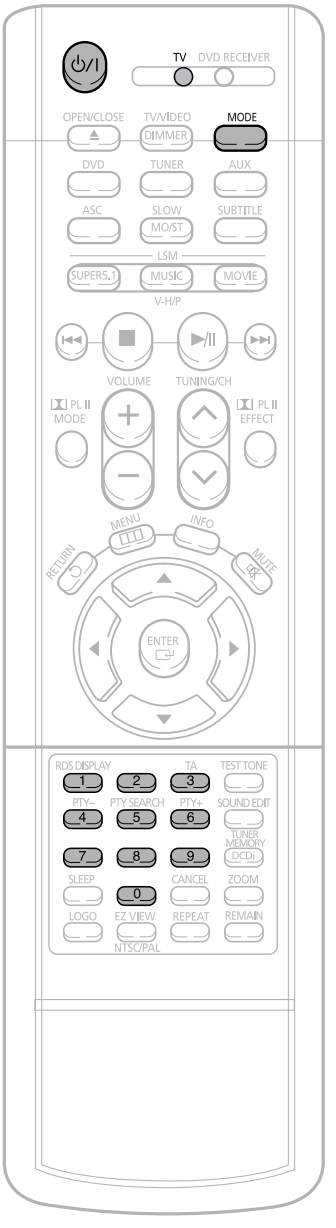
Mute Function

This is useful when answering the door or a telephone call.

Press **MUTE** button.

- '**MUTE**' flash in the display.
- To switch the sound back on (at the same volume as before), press **MUTE** again or the **VOLUME** buttons.

Operating a TV with the Remote Control



When operating a TV with the remote control

1 Press the **MODE** button to make the TV indicator on the remote control flash.

2 Press **POWER** button to turn on the TV.

3 Point the remote control toward the TV.

4 While holding down **POWER**, enter the code corresponding to your brand of TV.

- If the code matches the TV's code, the TV will be turned off.
- If there is more than one code listed for your TV in the table, enter one at a time to determine which code works.

Example: For a Samsung TV

While holding down **POWER**, use the number buttons to enter 00, 01, 02, 03, 04, and 05.

5 Pont the remote control toward the TV and press **POWER**. If the TV turns off or on, the setting is complete.

- You can use the TV POWER, VOLUME, CHANNEL, and Numeric buttons (0~9).

Note

- The remote control may not work on some brands of TVs. Also some operations may not be possible depending on your brand of TV.
- If you do not set the remote control with the code for your brand of TV, the remote control will work on a Samsung TV by default.

TV Brand Code List

No.	Brand	Code	No.	Brand	Code
1	SAMSUNG	00(Initial Value), 01, 02, 03, 04, 05, 73	30	BRANDT	41
2	ANAM	06~11, 59	31	FERGUSON	41
3	DAEWOO	12~18, 20, 21	32	PIONEER	41, 48, 74
4	LG	05, 20, 21, 22, 53	33	TELEAVA	41
5	HITACHI	23, 40, 41, 49	34	FINLUX	05, 42, 47
6	JVC	24, 55	35	FISHER	31
7	SHARP	27, 33, 34, 35, 54	36	AKAI	31
8	SONY	27, 36	37	YOKO	05
9	TOSHIBA	27, 37, 42, 43, 44, 46	38	PHONOLA	05, 45, 47
10	SANYO	27, 30, 31, 32	39	RADIOLA	05, 45
11	MITSUBISHI	05, 27, 28	40	SCHNEIDER	05
12	MATSUSHITA	09, 26	41	NEWSAN	58
13	TELEFUNKEN	41, 49, 51, 57	42	CONTINENTAL EDISON	49
14	RCA	29, 61	43	SALORA	48
15	PANASONIC	07, 09, 26, 48, 49, 50	44	SELECO	48
16	SABA	40, 41, 47, 48, 49	45	NOKIA	48
17	PHILIPS	05, 45, 47, 64, 65, 66, 67, 68, 69	46	REX	48
18	GRUNDIG	39, 42, 46, 70, 71, 72	47	MIVAR	46
19	ZENITH	38	48	IMPERIAL	46
20	MIVAL	52	49	CGE	46
21	NOBLEX	56	50	BANG & OLUFSEN	47
22	EMERSON	19	51	BRIONVEGA	47
23	MAGNAVOX	25	52	FORMENTI	47
24	LOEWE	05, 60	53	METZ	47
25	THOMSON	40, 41, 49, 62, 63	54	WEGA	47
26	NORDMENDE	40, 41, 49	55	RADIOMARELLI	47
27	LOEWE OPTA	36, 47, 05	56	SINGER	47
28	BLAUPUNKT	39	57	SINUDYNE	47
29	SIEMENS	39			

Before Calling for Service

Refer to the chart below when this unit does not function properly. If the problem you are experiencing is not listed below or if the instruction below does not help, turn off the unit, disconnect the power cord, and contact the nearest authorized dealer or Samsung Electronics Service Center.

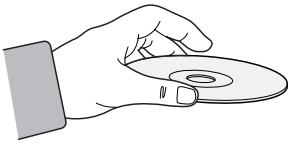
Symptom	Check/Remedy
Disc tray does not open.	• Is the power cord plugged securely into the outlet? • Turn off the power and then turn it back on.
Playback does not start.	• Check the region number of the DVD. DVD discs purchased from abroad may not be playable. • CD-ROMs and DVD-ROMs cannot be played on this DVD player. • Make sure that the rating level is correct.
Playback does not start immediately when the Play/Pause button is pressed.	• Are you using a deformed disc or a disc with scratches on the surface? • Wipe the disc clean.
Sound is not produced.	• No sound is heard during fast playback, slow playback, and step motion playback. • Are the speakers connected properly? Is the speaker setup correctly customized? • Is the disc severely damaged?
Sound can be heard only from a few speakers and not all six.	• When listening to a CD or radio, sound is output to the front speakers (L/R) only. Select "PRO LOGIC II" by pressing DD PL II (Dolby Pro Logic II) on the remote control to use all six speakers. • Make sure that the DVD disc is 5.1-CH compatible. • If you set C, SL, and SR to NONE in the speaker mode in the audio setup of the setup screen, no sound is heard from the center speaker and the front left and right speakers. Set C, SL, and SR to SMALL.
Picture does not appear, sound is not produced, or the disc tray opens 2 to 5 seconds later.	• Was the DVD player suddenly moved from a cold place to a warm one? When condensation forms inside the player, remove the disc and let the player stand for 1 or 2 hours with the power on. (You can use the player again after condensation disappears.)
Dolby Digital 5.1 CH Surround Sound is not produced.	• Is there a "Dolby Digital 5.1 CH" mark on the disc? Dolby Digital 5.1 CH Surround Sound is produced only if the disc is recorded with 5.1 channel sound. • Is the audio language correctly set to DOLBY DIGITAL 5.1-CH in the information display?

Symptom	Check/Remedy
• Disc is rotating but no picture is produced. • Picture quality is poor and picture is shaking.	• Is the TV power on? • Are the video cables connected properly? • Is the disc dirty or damaged? • A poorly manufactured disc may not be playable.
The remote control does not work.	• Is the remote control being operated within its operation range of angle and distance? • Are the batteries exhausted? • Have you selected the mode(TV/DVD) functions of the remote control (TV or DVD) correctly?
Audio language and subtitles do not work.	• Audio language and subtitles will not work for DVDs not containing them. And depending on the disc, they may work differently.
Menu screen does not appear even when the menu function is selected.	• Are you using a disc that does not contain menus?
Aspect ratio cannot be changed.	• You can play 16:9 DVDs in 16:9 WIDE mode, 4:3 LETTER BOX mode, or 4:3 PAN SCAN mode, but 4:3 DVDs can be seen in 4:3 ratio only. Refer to the DVD disc jacket and then select the appropriate function.
Can't receive radio broadcast.	• Is the antenna connected properly? • If the antenna's input signal is weak, install an external FM antenna in an area with good reception.
• The main unit is not working. (Example: The power goes out or strange noise is heard.) • The DVD player is not working normally.	• Turn off the power and hold the ■ button on the main unit for longer than 5 seconds. Using the RESET function will erase all stored settings. Do not use this unless necessary.
The password for rating level has been forgotten.	• While “NO DISC” message appears on the display of main unit, hold the main unit's ■ button for longer than 5 seconds. “**INITIALIZE**” appears on the display and all settings will return to the default values. • Press the POWER button. **Using the RESET function will erase all stored settings.** **Do not use this unless necessary.**

Cautions on Handling and Storing Discs

Small scratches on the disc may reduce sound and picture quality or cause skipping. Be especially careful not to scratch discs when handling them.

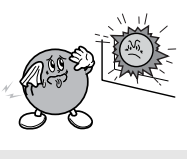
Handling discs



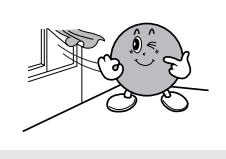
Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints will not get on the surface.
Do not stick paper or tape on the disc.

Disc Storage

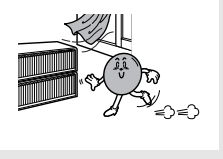
Do not keep in direct sunlight



Keep in a cool ventilated area



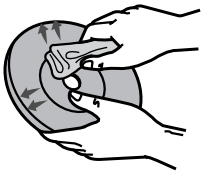
Keep in a clean Protection jacket. Store vertically.



Caution

- Do not allow the discs to become contaminated with dirt.
- Do not load cracked or scratched discs.

Handling and Storing Discs



When you get fingerprints or dirt on the disc, clean it with a mild detergent diluted in water and wipe with a soft cloth.

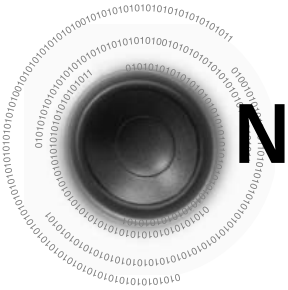
- When cleaning, wipe gently from the inside to the outside of the disc.

Note

- Condensation may form if warm air comes into contact with cold parts inside the player. When condensation forms inside the player, the player may not operate correctly. If this occurs, remove the disc and let the player stand for 1 or 2 hours with the power on.

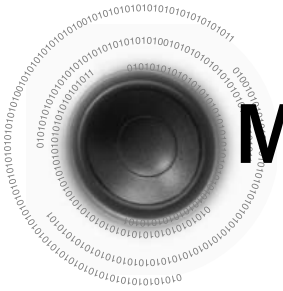
Specifications

GENERAL	Power Consumption	HT-DS1000/1100 : 30W		
		PSWS1000E/1100E : 150W		
	Weight	MAIN UNIT : 2.25kg		
		VERTICAL STAND : 6.35kg		
		HORIZONTAL STAND : 1.5kg		
	Dimensions (W x H x D)	180 x 500 x 68 mm		
	Operating Temperature Range	5°C ~ 35°C		
	Operating Humidity Range	10% ~ 75%		
FM TUNER	Usable Sensitivity	10dB		
	S/N Ratio	60dB		
	Distortion	0.5%		
VIDEO OUTPUT	Composite Video	1.0Vp-p(75Ω load)		
	Component Video	Y:1.0Vp-p(75Ω load)		
		Pr:0.70Vp-p(75Ω load)		
		Pb:0.70Vp-p(75Ω load)		
	HDMI	Impedance: 85~115Ω		
AMPLIFIER	Front speaker output	100W x 2(4Ω)		
	Center speaker output	100W(4Ω)		
	Rear speaker output	100W x 2(4Ω)		
	Subwoofer speaker output	150W(3Ω)		
	Frequency range	20Hz~20kHz		
	S/N Ratio	70dB		
	Channel separation	60dB		
	Input sensitivity	(AUX)500mV		
SPEAKERS	**Speaker system (PSDS 1000E)**	5.1ch speaker system		
		Front/Center/Rear speaker		Subwoofer speaker
	Impedance	4Ω x 5		3Ω
	Frequency range	150Hz~20kHz		30Hz~200Hz
	Output sound pressure level	82dB/W/M		85dB/W/M
	Rated input	100W		150W
	Maximum input	200W		300W
	Dimensions (W x H x D)	Front/Rear	70 x 1388 x 145 mm	250 x 460 x 505 mm
		Center	414 x 82 x 155 mm	
	Weight	Front/Rear	6.0 kg	11.5 kg
		Center	1.5 kg	
	Speaker system (PSDS 1100E)	5.1ch speaker system		
		Front/Center/Rear speaker		Subwoofer speaker
	Impedance	Front/Rear	4Ω x 4	3Ω
		Center	4Ω	
	Frequency range	100Hz~20kHz		30Hz~200Hz
	Output sound pressure level	86dB/W/M		86dB/W/M
	Rated input	100W		150W
	Maximum input	200W		300W
	Dimensions (W x H x D)	Front/Rear	380 x 1388 x 245 mm	280 x 470 x 435 mm
		Center	418 x 140 x 150 mm	
	Weight	Front/Rear	7.5 kg	12.6 kg
		Center	2.8 kg	



Notes on Terminology

ANGLE	Recorded onto some DVD discs are scenes which have been simultaneously shot from a number of different angles (the same scene is shot from the front, from the left , from the right , etc.). With such discs, the Angle button can be used to change the angle of view for specific scenes.
CHAPTER NUMBER	These numbers are recorded on DVD discs. A Title is subdivided into many sections, each of which is numbered, and specific parts of the video can be searched quickly using these numbers.
DVD	A high-density optical disc on which high-quality pictures and sound have been recorded by means of digital signals. Incorporating a new video compression technology (MPEG-2) and high-density recording technology, a DVD disc comprises two 0.6 mm thick discs bonded together.
PCM	An acronym for Pulse Code Modulation - another name for digital audio.
PBC (PLAYBACK CONTROL)	This is recorded on a video CD (version 2.0). Selected scenes or information can be chosen from the menu displayed on the TV monitor.
REGION NUMBER	Both the DVD player and DVD discs are encoded with a region number. If the region number on the DVD disc does not correspond to the region number of the DVD player, the player cannot play the disc.
SUBTITLES	Translated appearing at the bottom of the screen. A DVD disc can contain up to 32 subtitle languages.
TITLE NUMBER	These numbers are recorded on DVD discs. When a disc contains two or more movies, these movies are numbered as Title 1, Title 2, etc.
TRACK NUMBER	These numbers are assigned to the tracks which are recorded on video and audio CDs. They enable specific tracks to be located quickly.
VIDEO CD	Contains recordings of pictures and sound whose quality is roughly comparable to that of video tape. This player also supports video CDs with playback control (version 2.0).
DIGITAL dts SURROUND	You can enjoy 5.1 (or 6) channels of high fidelity digital sound from various digital input sources such as DVD, CD etc. DTS provides a realistic, clear surround sound that has not previously been available from conventional surround sound.
DOLBY DIGITAL	5.1 (or 6) Channel Digital Surround sound reproduced from DVDs and LDs recorded as a digital signals (with DOLBY DIGITAL disc marking). With better sound quality, dynamic range, and directionality than traditional Dolby surround technology, you can enjoy dynamic, realistic sound.
DOLBY DIGITAL PRO LOGIC II	A 4 channel analog sound reproduced from a program source such as a videotape or LD with the DOLBY DIGITAL PRO LOGIC mark. You can enjoy a more realistic, robust sound unavailable from regular stereo sources.



Memo

THIS APPLIANCE IS MANUFACTURED BY: